

KIC 010811753

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
010811753-01	OBS	No	0.770007	131.877888	46.6	1.520	9.3	2.1	2.96	7912	2.30	75136.26
010811753-02	OBS	No	0.770004	132.330503	5.7	1.657	9.3	0.3	2.96	7912	0.83	75136.60
010811753-03	OBS	No	92.521962	218.912837	3031.3	4.542	7.3	8.0	2.96	7912	29.68	126.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010811753-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
010811753-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010811753-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

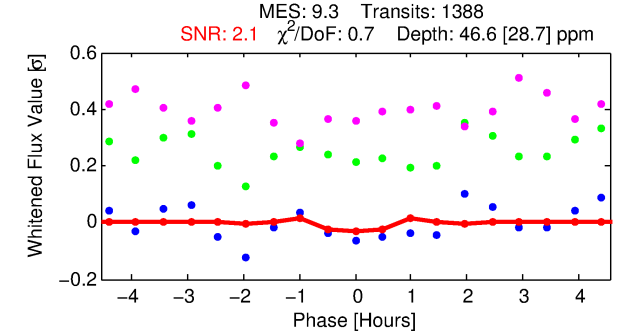
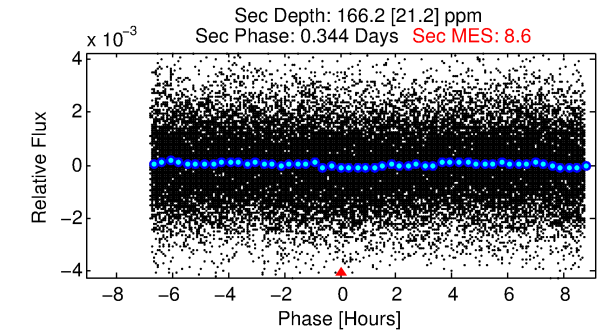
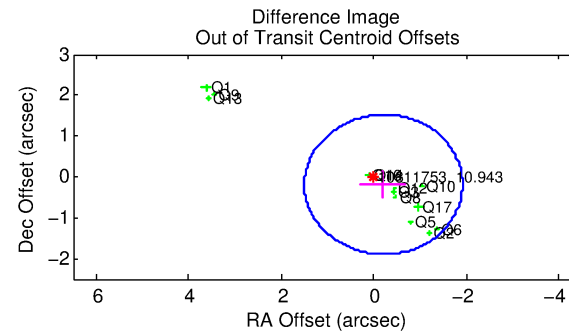
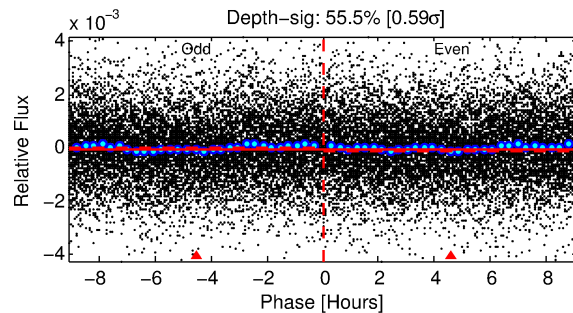
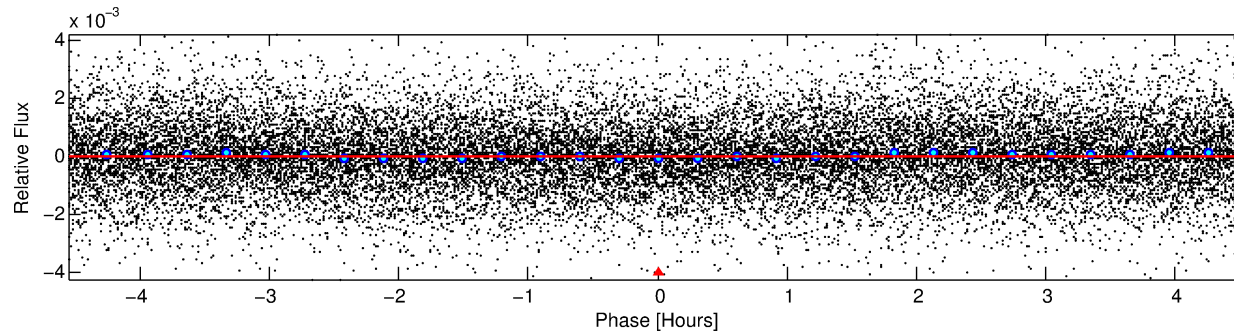
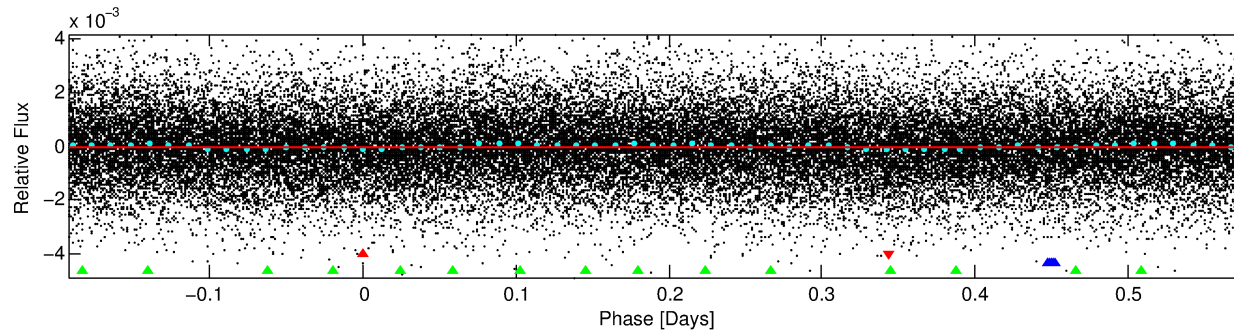
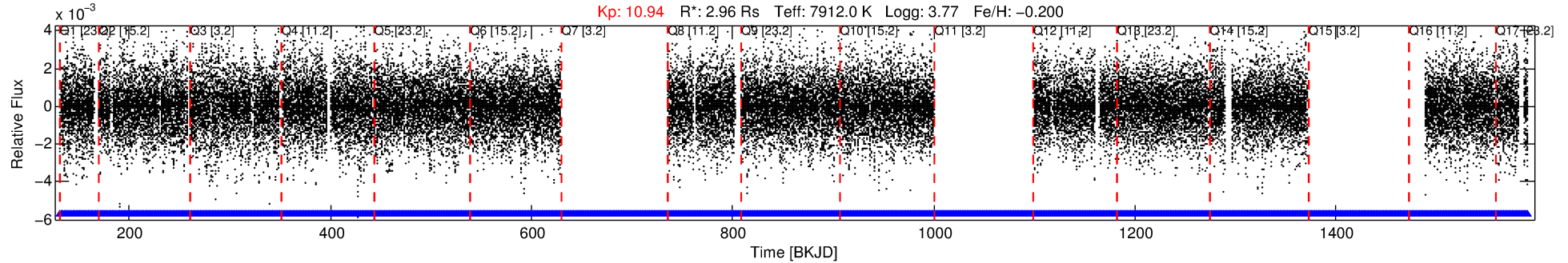
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010811753-01

No Significant Match Found

DV One-Page Summary

KIC: 10811753 Candidate: 1 of 3 Period: 0.770 d



DV Fit Results:

Period = 0.77001 [0.00005] d
Epoch = 131.8779 [0.0055] BKJD
Rp/R* = 0.0071 [0.0045]
a/R* = 2.22 [5.51]
b = 0.86 [0.95]
Seff = 75136.26 [28112.79]
Teq = 4222 [395] K
Rp = 2.30 [1.55] Re
a = 0.0202 [0.0048] AU
Ag = 7.03 [9.19] [0.66 σ]
Teffp = 10630 [3331] K [1.9 σ]

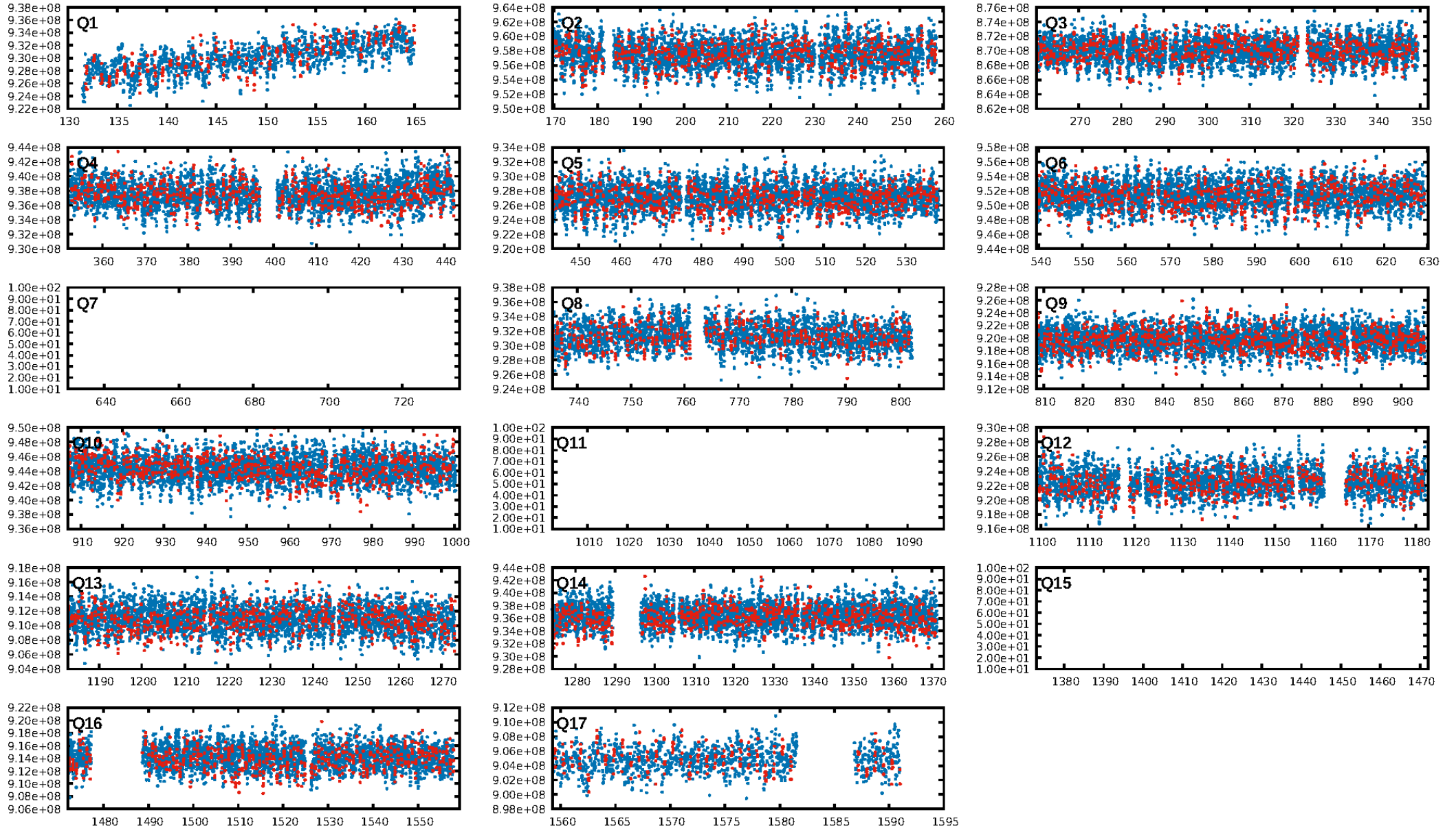
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 100.0% [459.75 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.50e-17
RollingBand-fgt: 1.00 [1309/1309]
GhostDiagnostic-chr: 1.197
Centroid-sig: N/A
Centroid-so: 0.261 arcsec [0.74 σ]
OotOffset-rm: 0.282 arcsec [0.50 σ]
KicOffset-rm: 0.259 arcsec [0.48 σ]
OotOffset-st: 4/1/3/5 [13]
KicOffset-st: 4/1/3/5 [13]
DiffImageQuality-fgm: 0.77 [10/13]
DiffImageOverlap-fno: 1.00 [14/14]

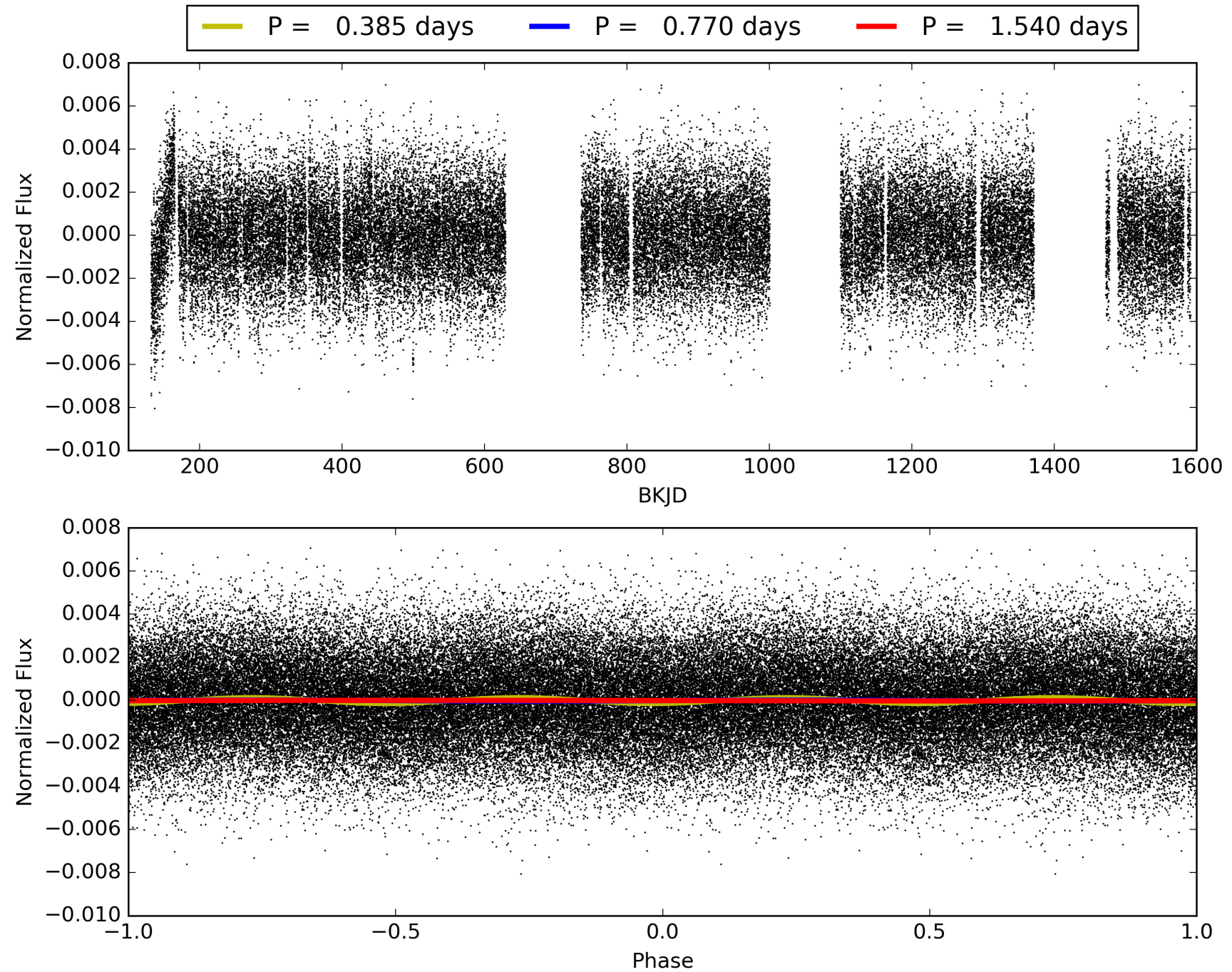
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 12:36:13 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 010811753-01, PDC Light Curves

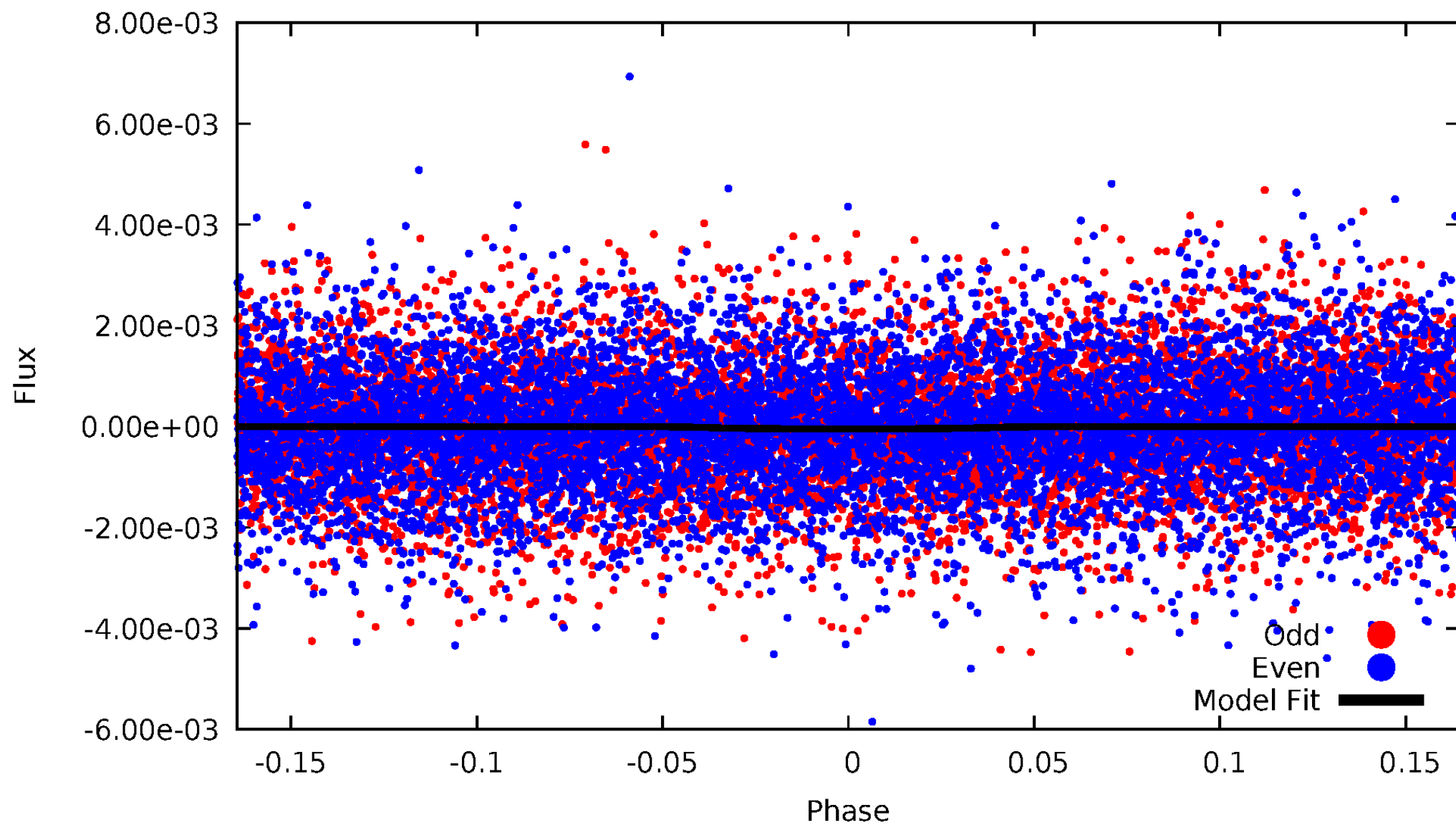


TCE 010811753-01



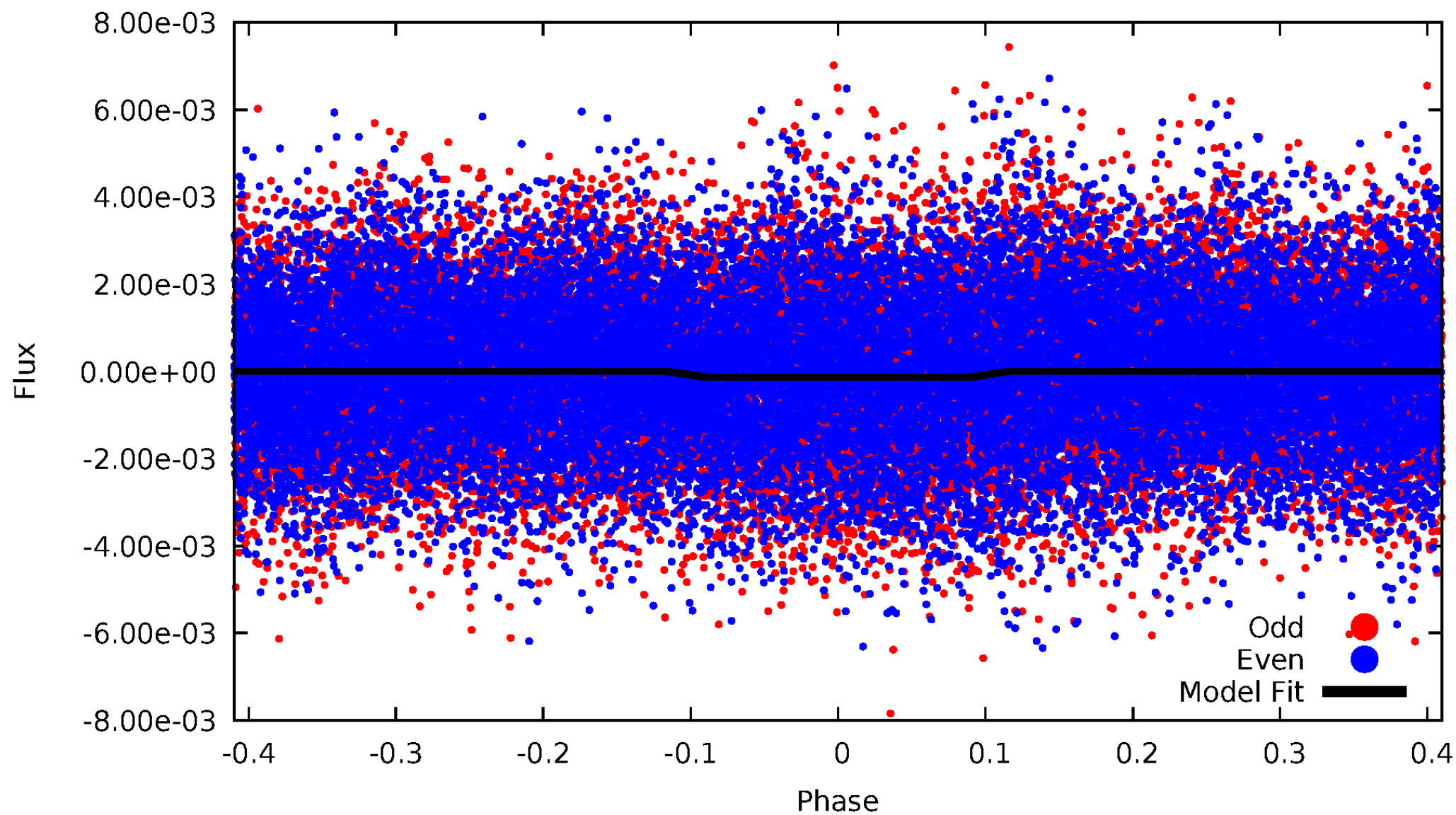
DV Odd/Even

TCE 010811753-01



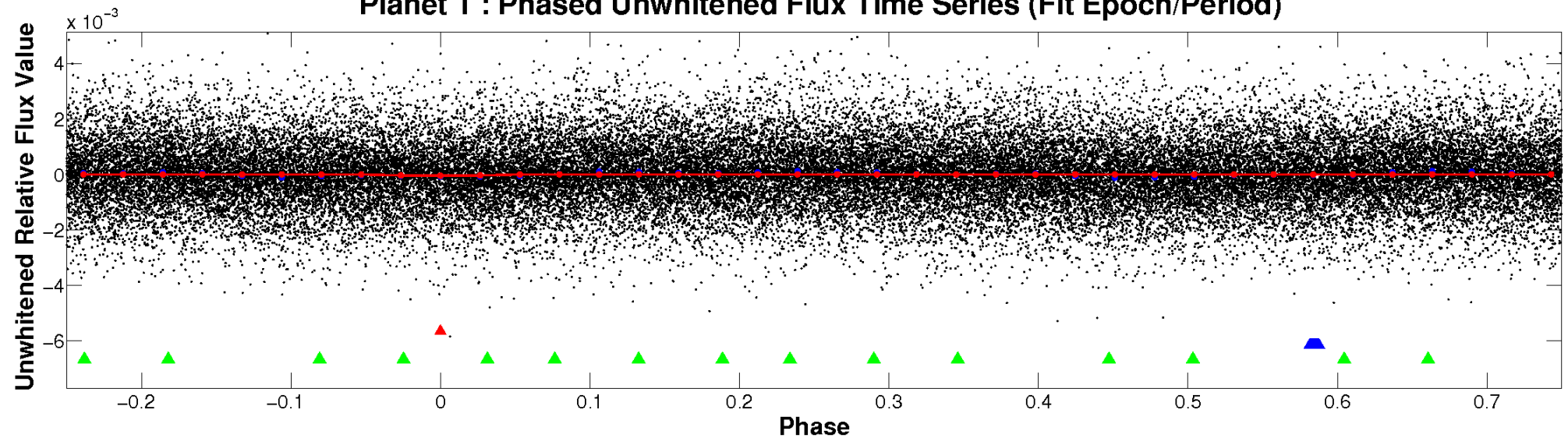
ALT Odd/Even

TCE 010811753-01

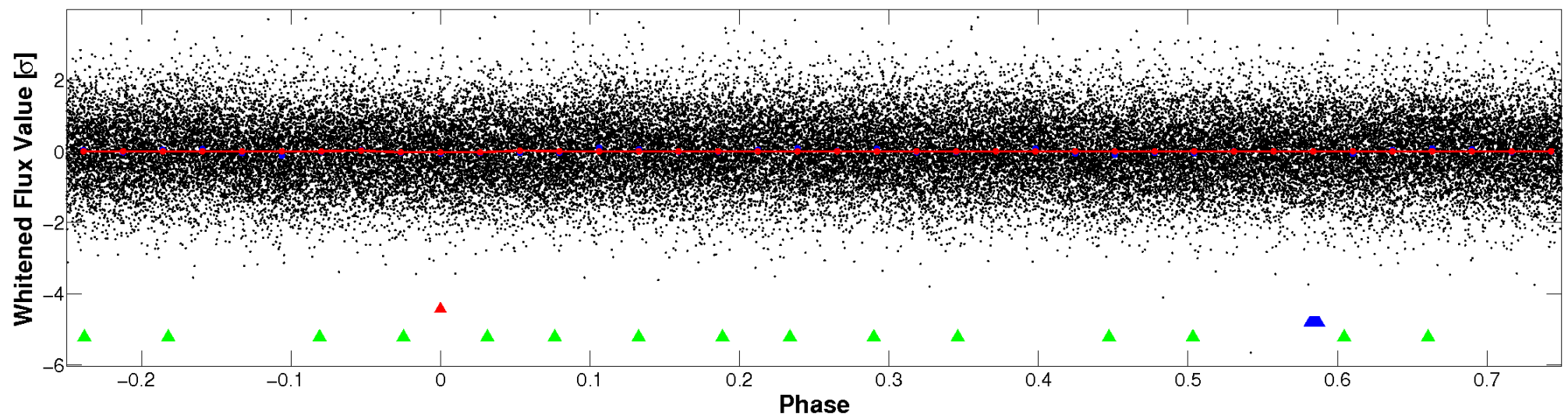


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

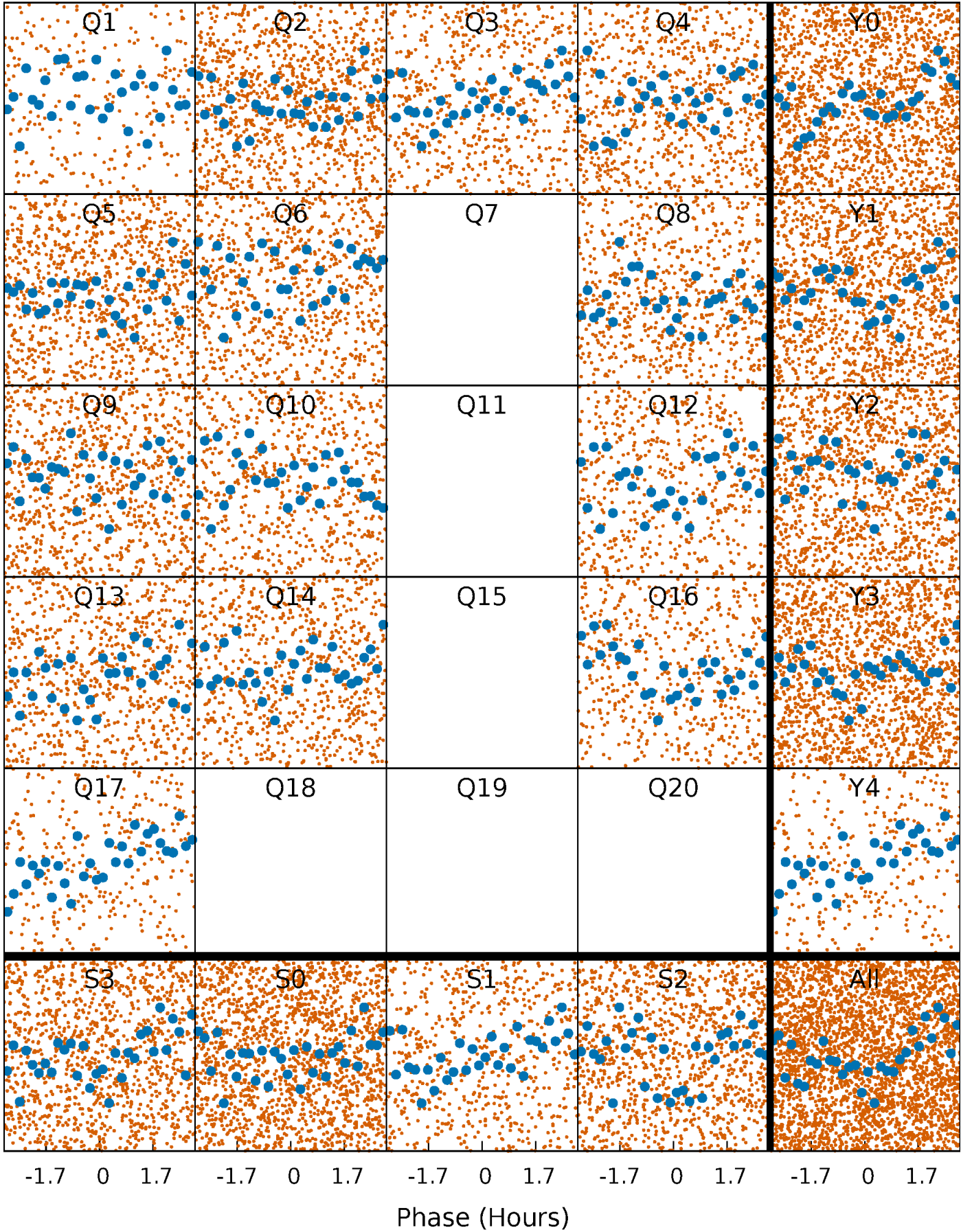


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



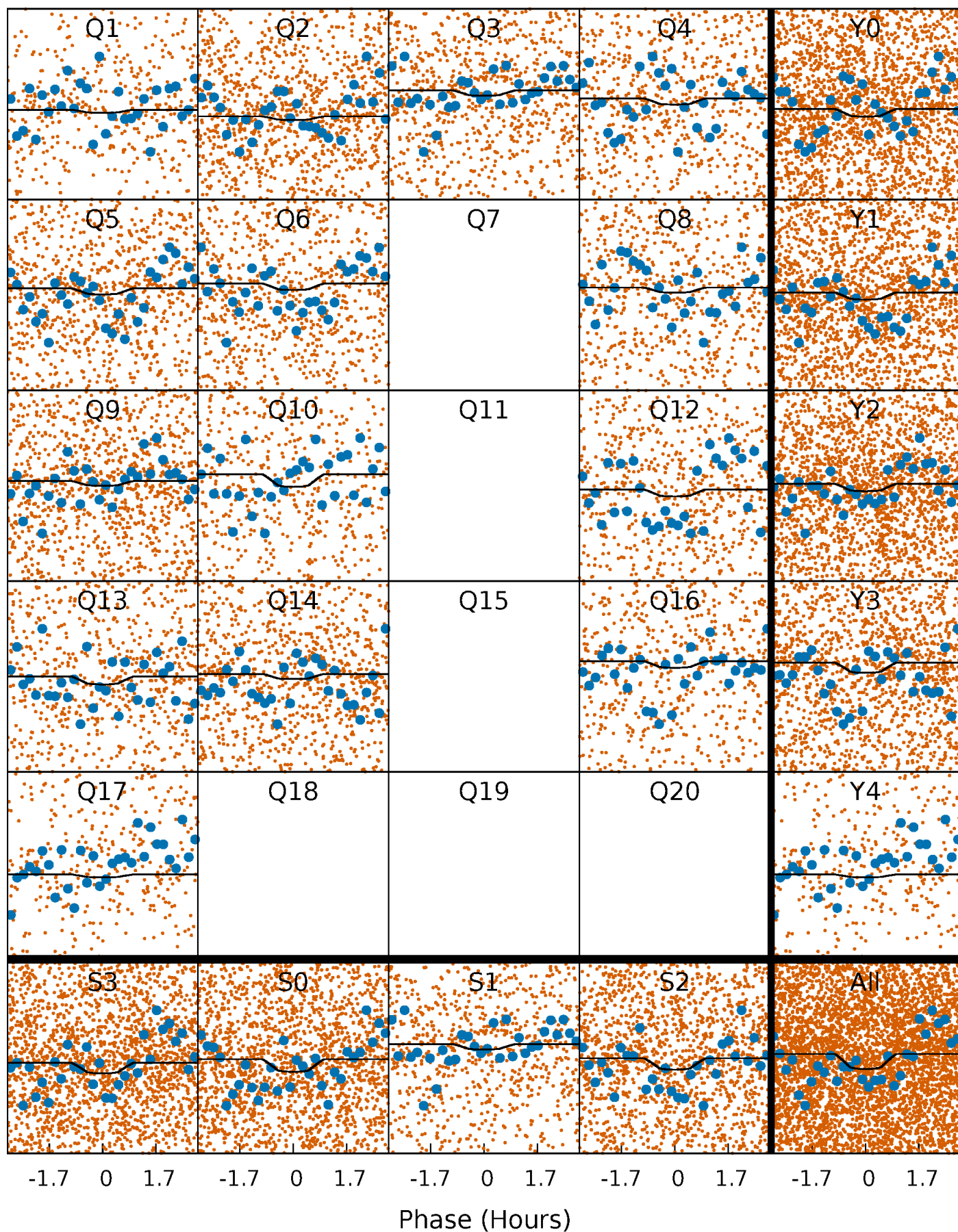
PDC Quarter-Phased Transit Curves

TCE 010811753-01 P= 0.770007 Days $T_0=131.877888$ (BKJD)



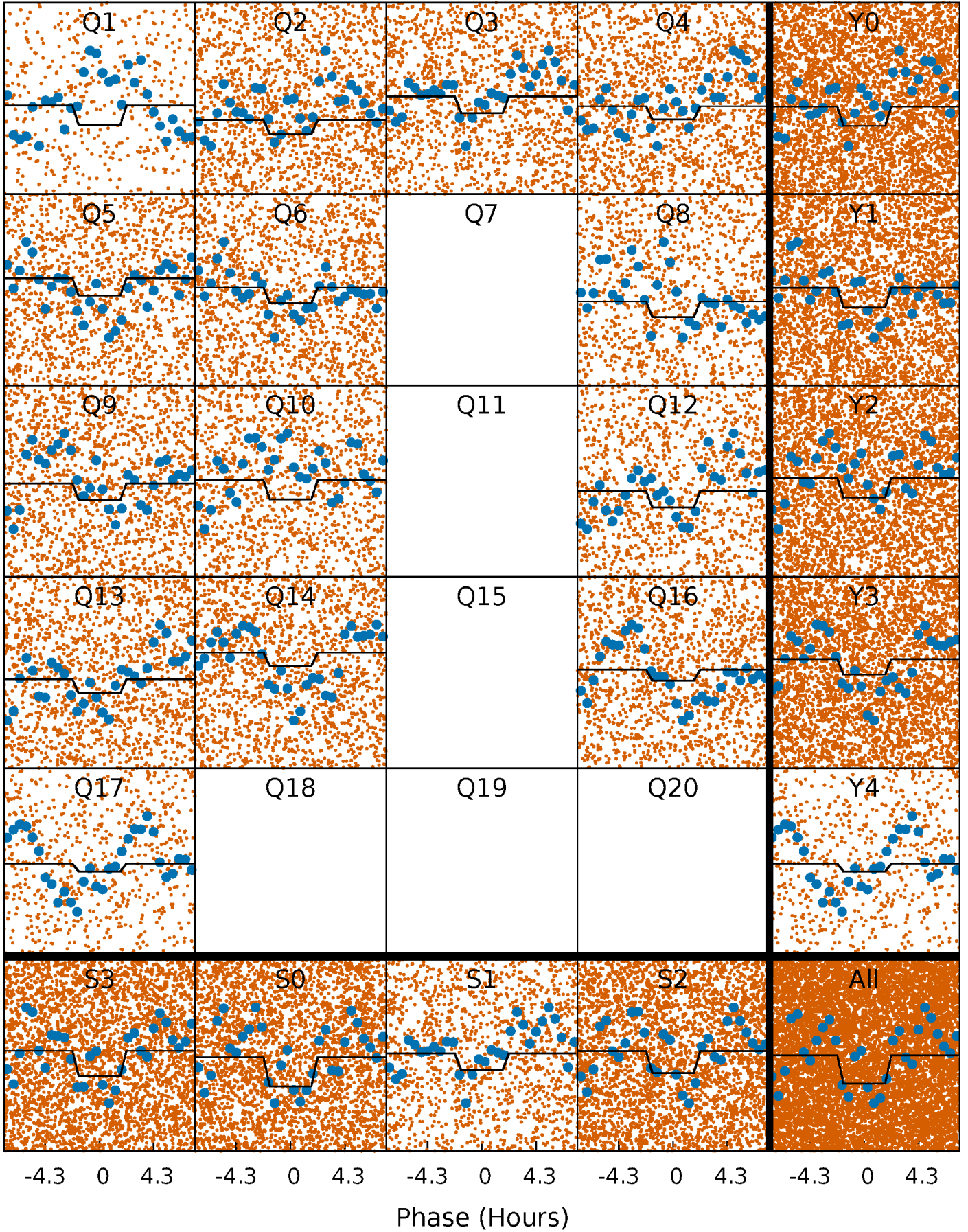
DV Quarter-Phased Transit Curves

TCE 010811753-01 P= 0.770007 Days $T_0=131.877888$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

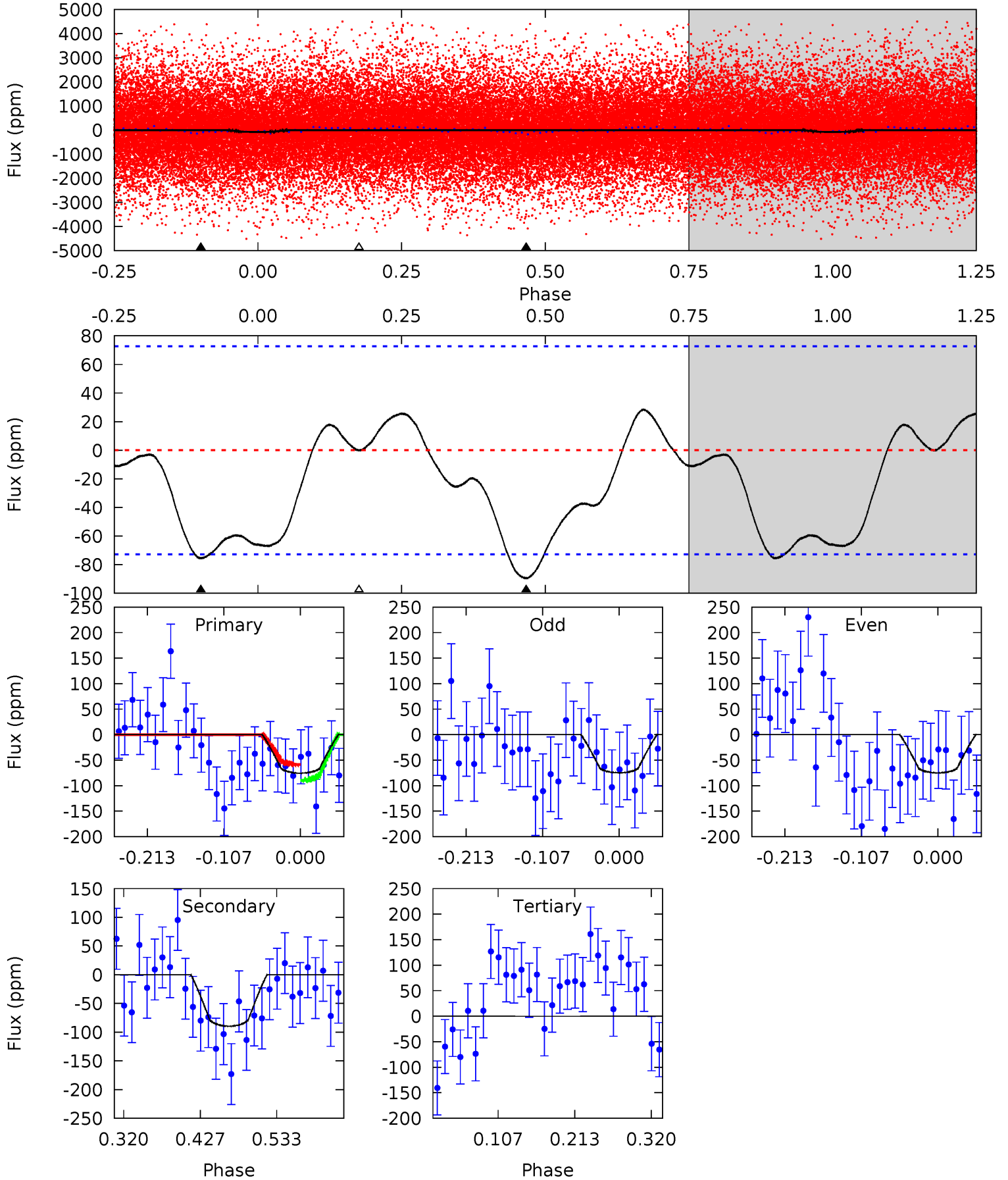
TCE 010811753-01 P= 0.769983 Days $T_0=131.866433$ (BKJD)



DV Model-Shift Uniqueness Test

010811753-01, P = 0.770007 Days, E = 131.107881 Days

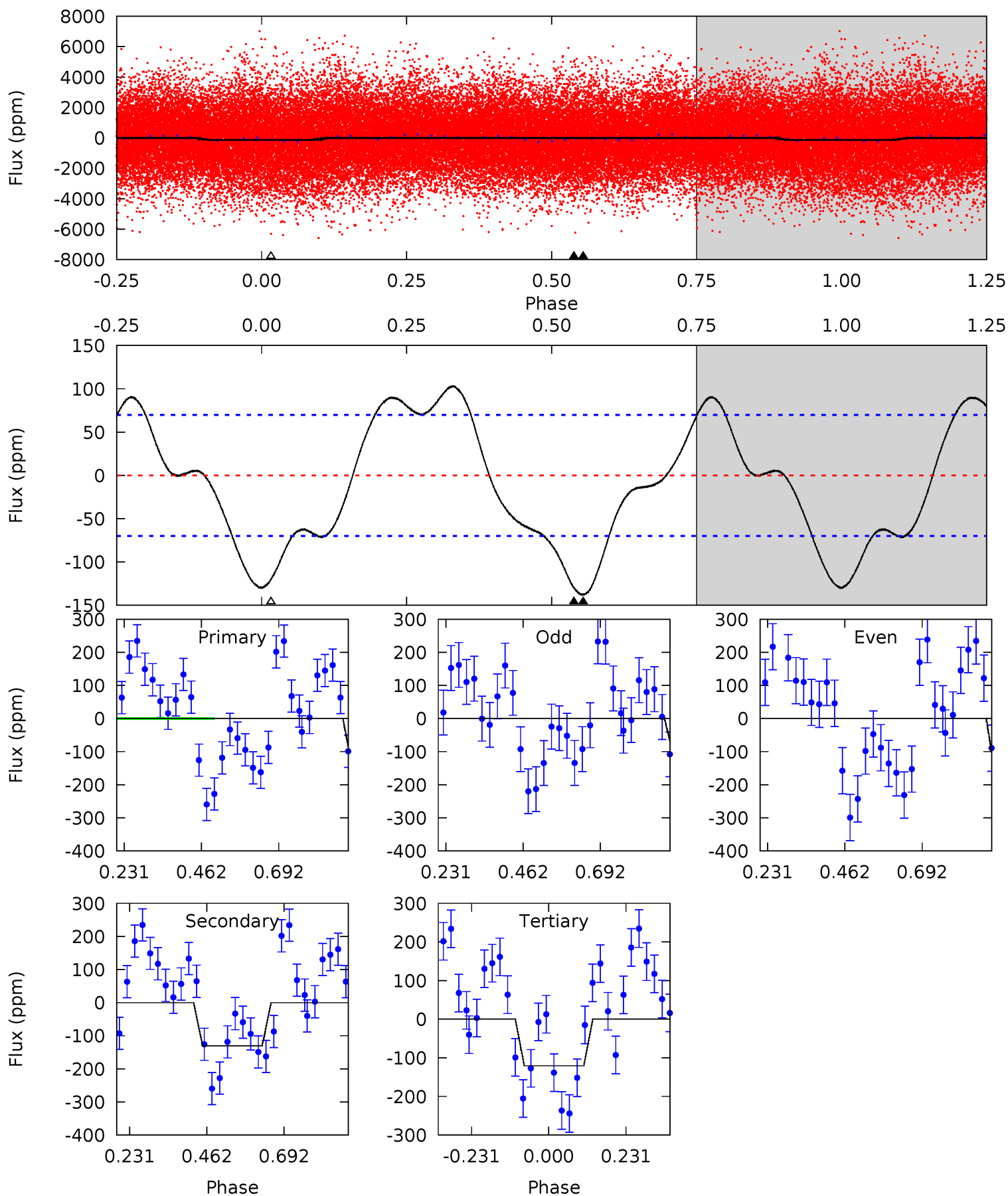
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.73	5.61	0	0	4.55	1.61	1.57	4.73	4.73	5.61	5.61	0.01	1.34	0.24	0.97



Alt Model-Shift Uniqueness Test

010811753-01, P = 0.769983 Days, E = 131.096450 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.67	8.18	7.56	0	4.39	1.20	4.37	1.10	8.67	0.61	8.18	1.79	1.14	0.43	3.34



Stellar Parameters For KIC 010811753

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7912^{+79}_{-79}	$3.765^{+0.216}_{-0.054}$	$-0.200^{+0.150}_{-0.150}$	$2.956^{+0.200}_{-0.748}$	$1.855^{+0.067}_{-0.188}$	$0.101^{+0.131}_{-0.014}$
	+1%/-1%	+6%/-1%	+75%/-75%	+7%/-25%	+4%/-10%	+130%/-14%
Source	SPE68	SPE68	SPE68	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010811753-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-90 ± 16	$2.29^{+1.26}_{-1.17}$	5861^{+164}_{-405}	8911^{+7501}_{-2396}	$3.787^{+12.121}_{-2.291}$
Alt.	-130 ± 16	$3.46^{+1.51}_{-1.29}$	5840^{+182}_{-380}	7572^{+3197}_{-1577}	$2.448^{+3.857}_{-1.325}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

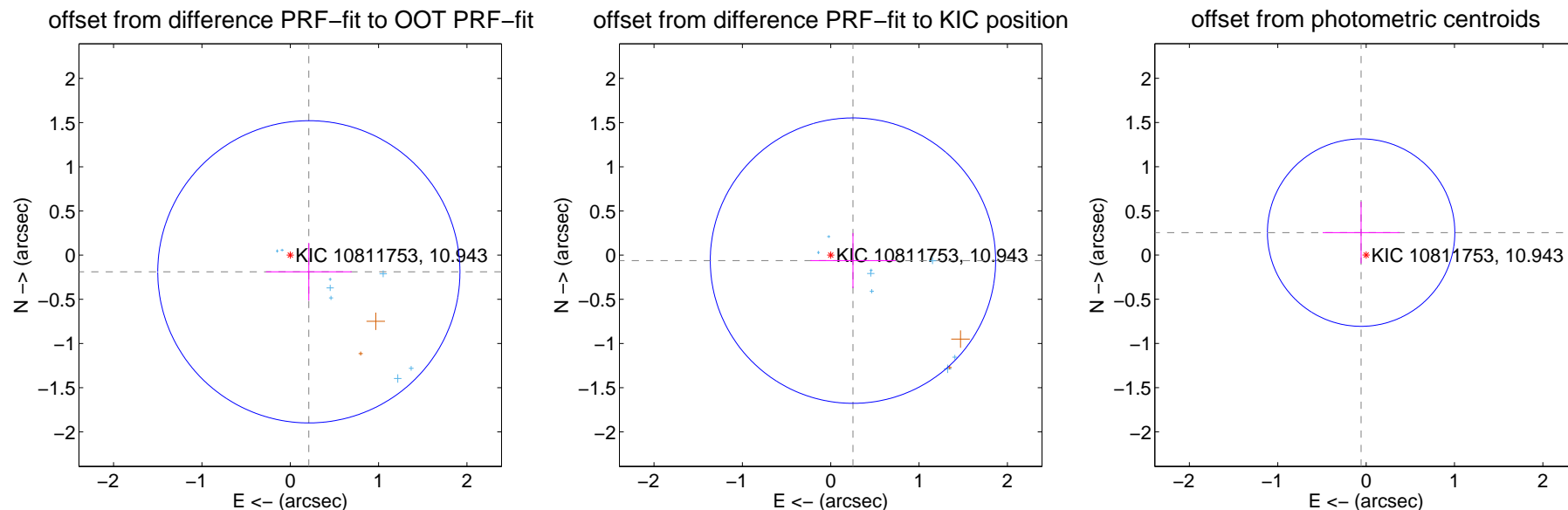
DV Centroid Data

Supplemental centroid analysis for 010811753-01. **Kepler magnitude: 10.94.** Transit SNR 2.06

There are 10 quarters with good PRF difference image offsets

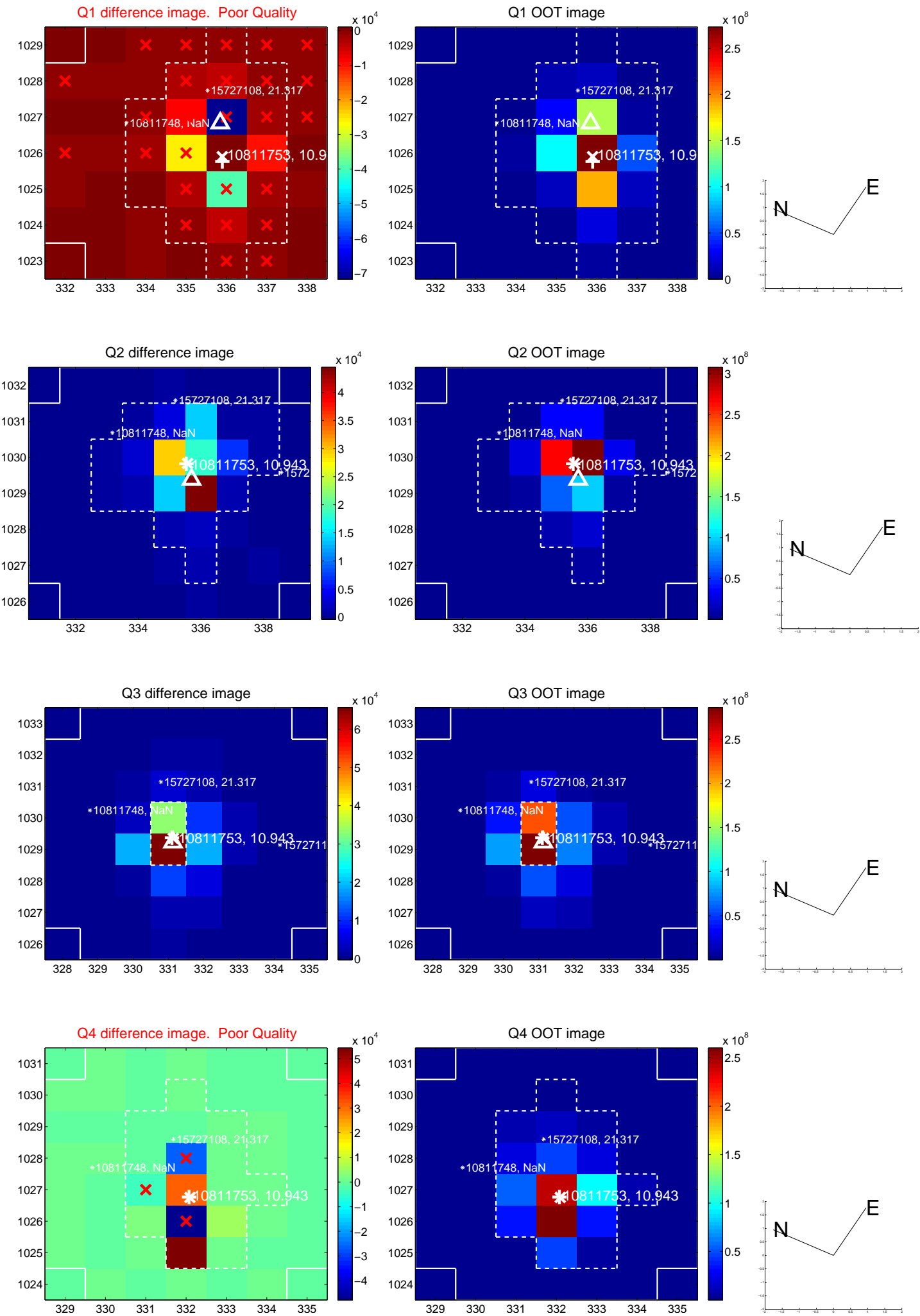
The direct PRF centroid is offset from the target star catalog position by about 0.54 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.282 ± 0.570	0.50	-0.210 ± 0.485	-0.188 ± 0.326
PRF-fit source offset from KIC position	0.259 ± 0.538	0.48	-0.252 ± 0.482	-0.062 ± 0.312
photometric centroid source offset	0.26 ± 0.35	0.74	0.06 ± 0.44	0.25 ± 0.35

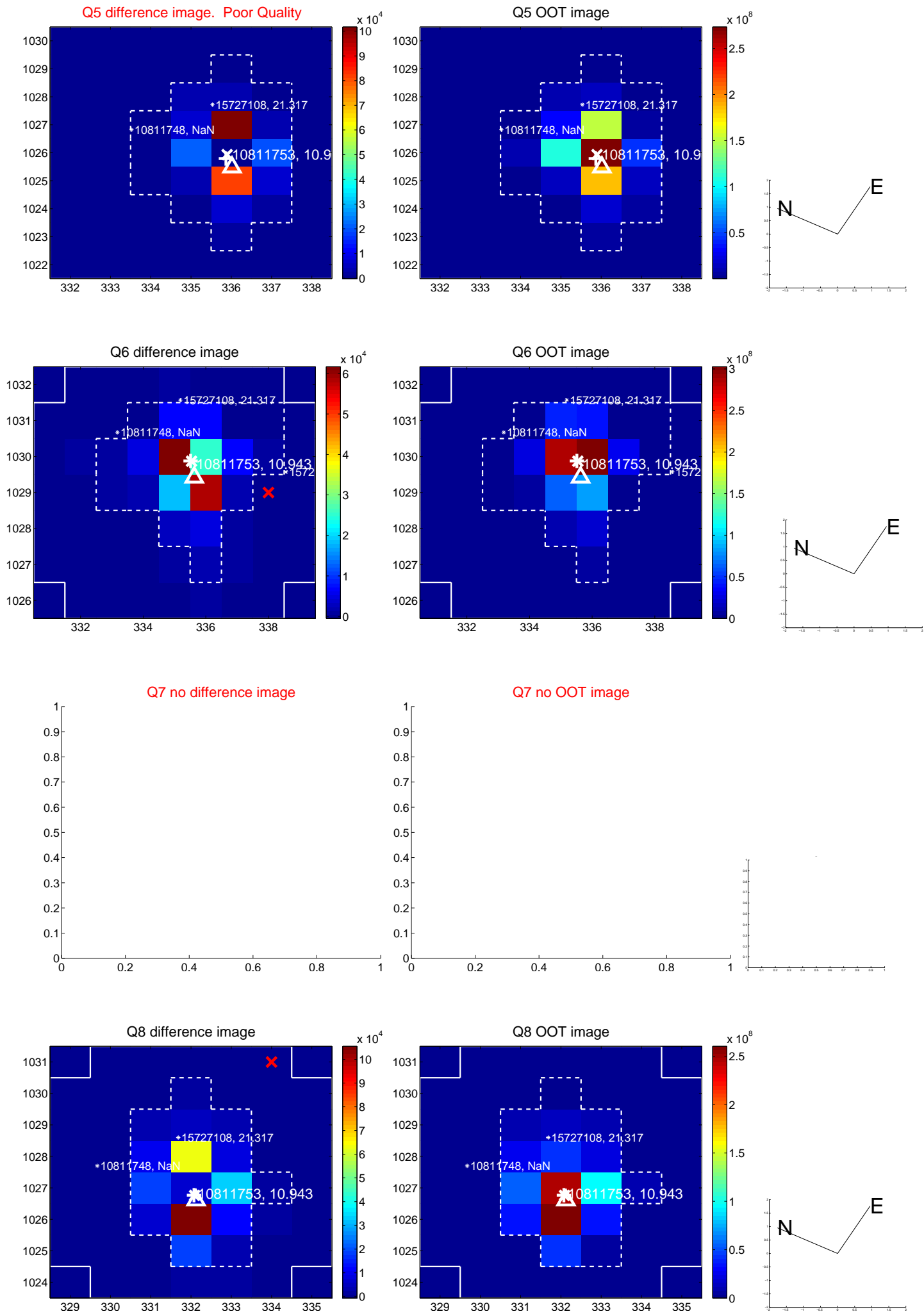


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

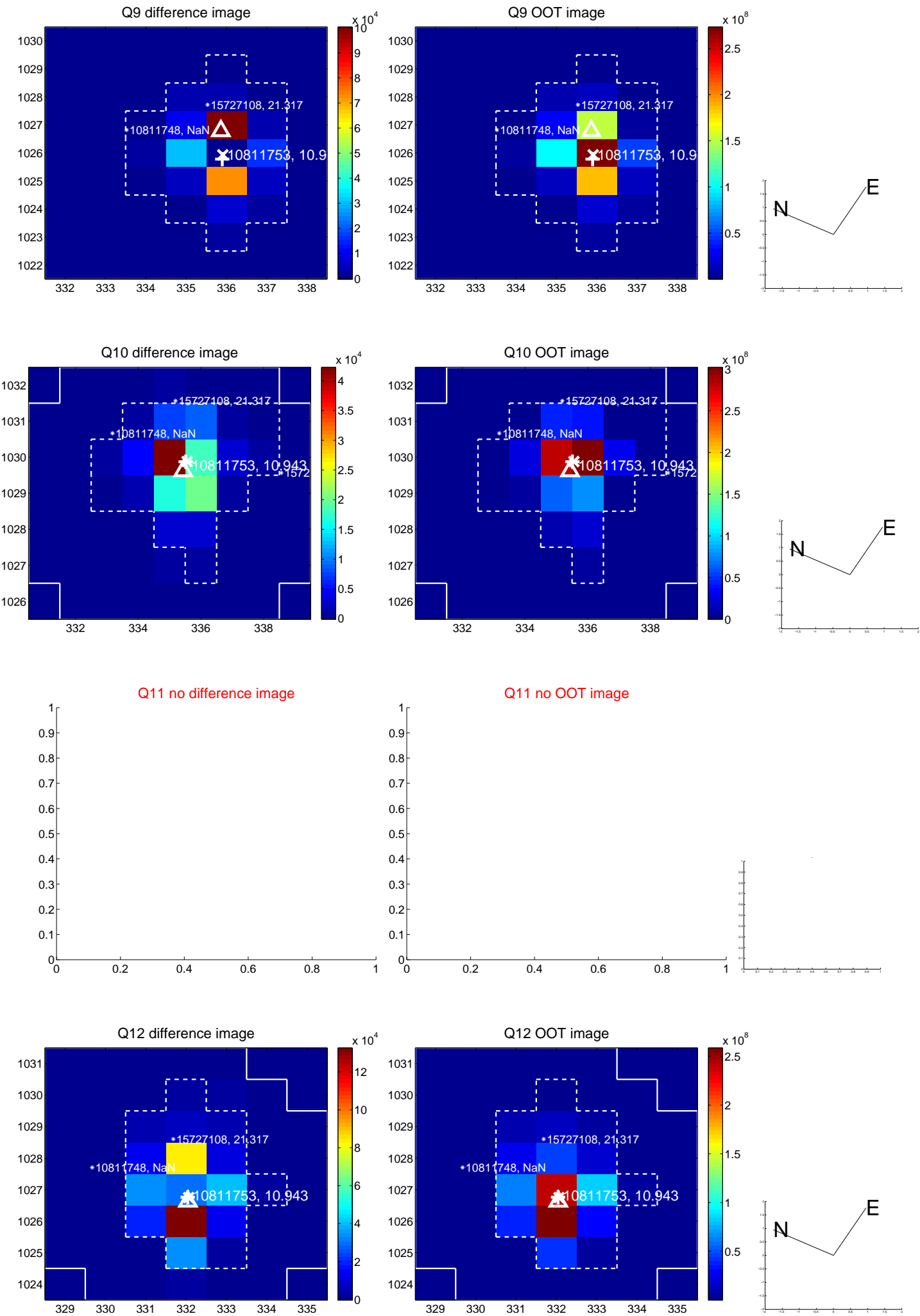
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



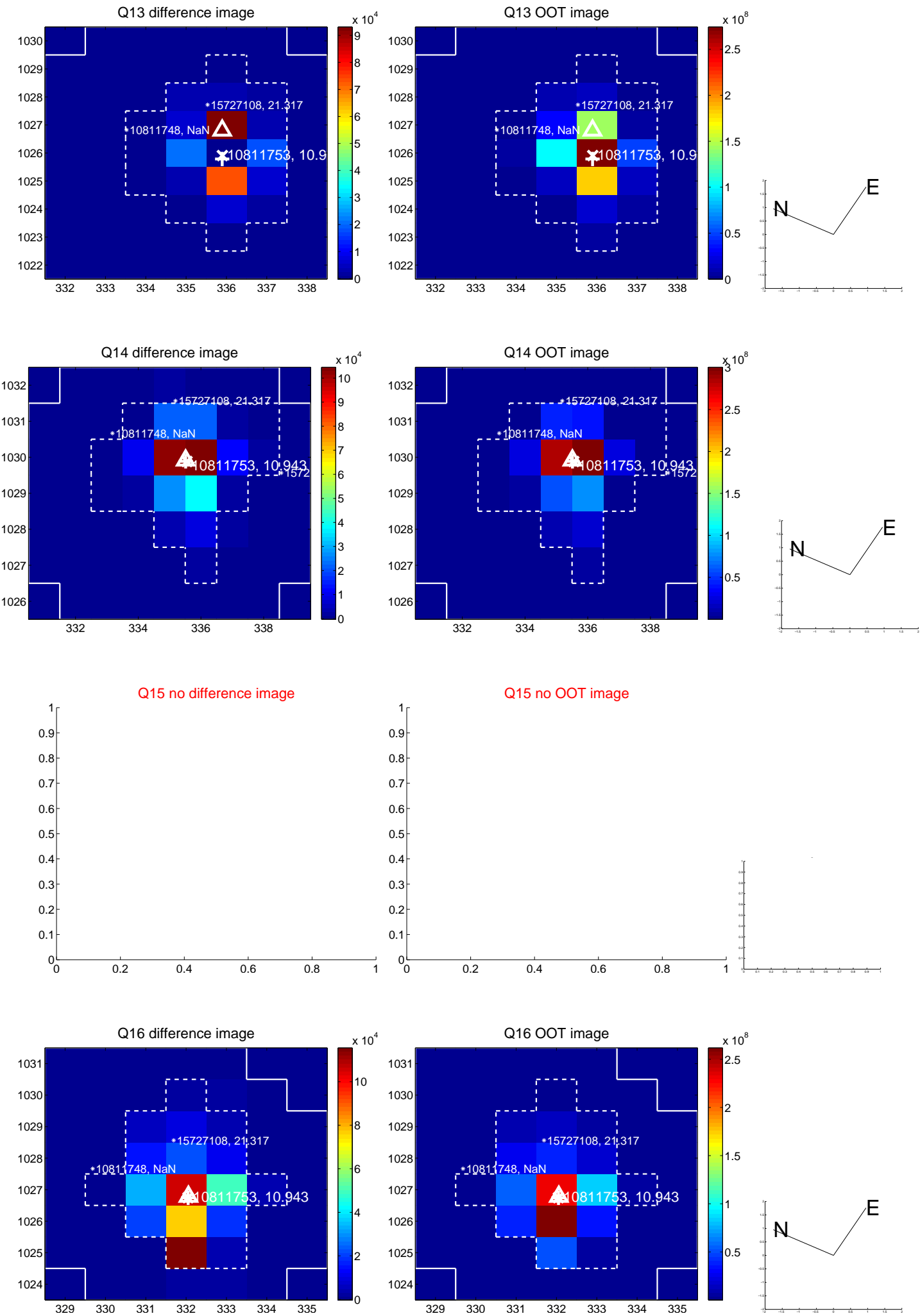
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



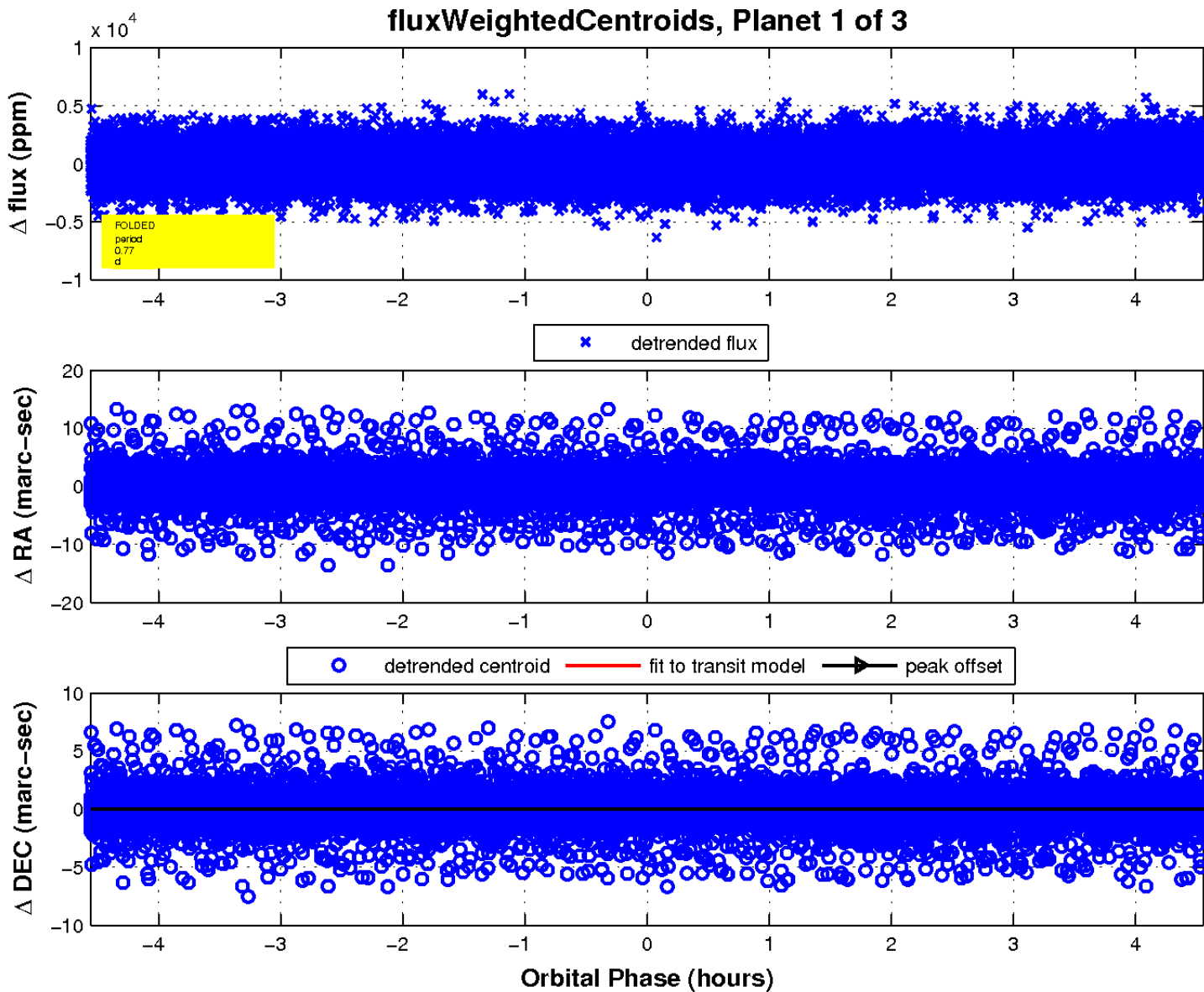
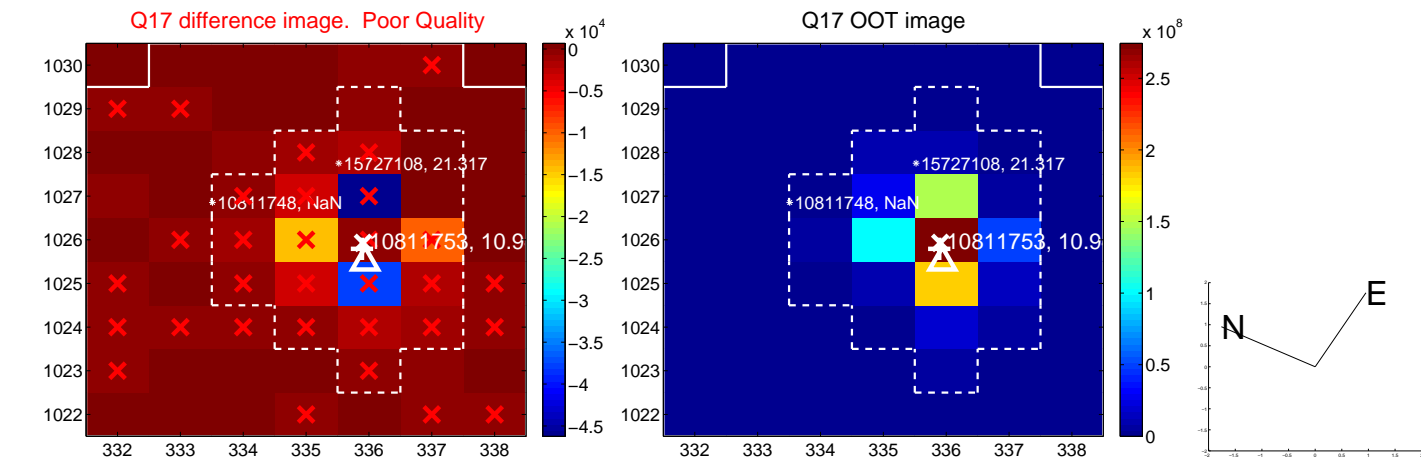
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

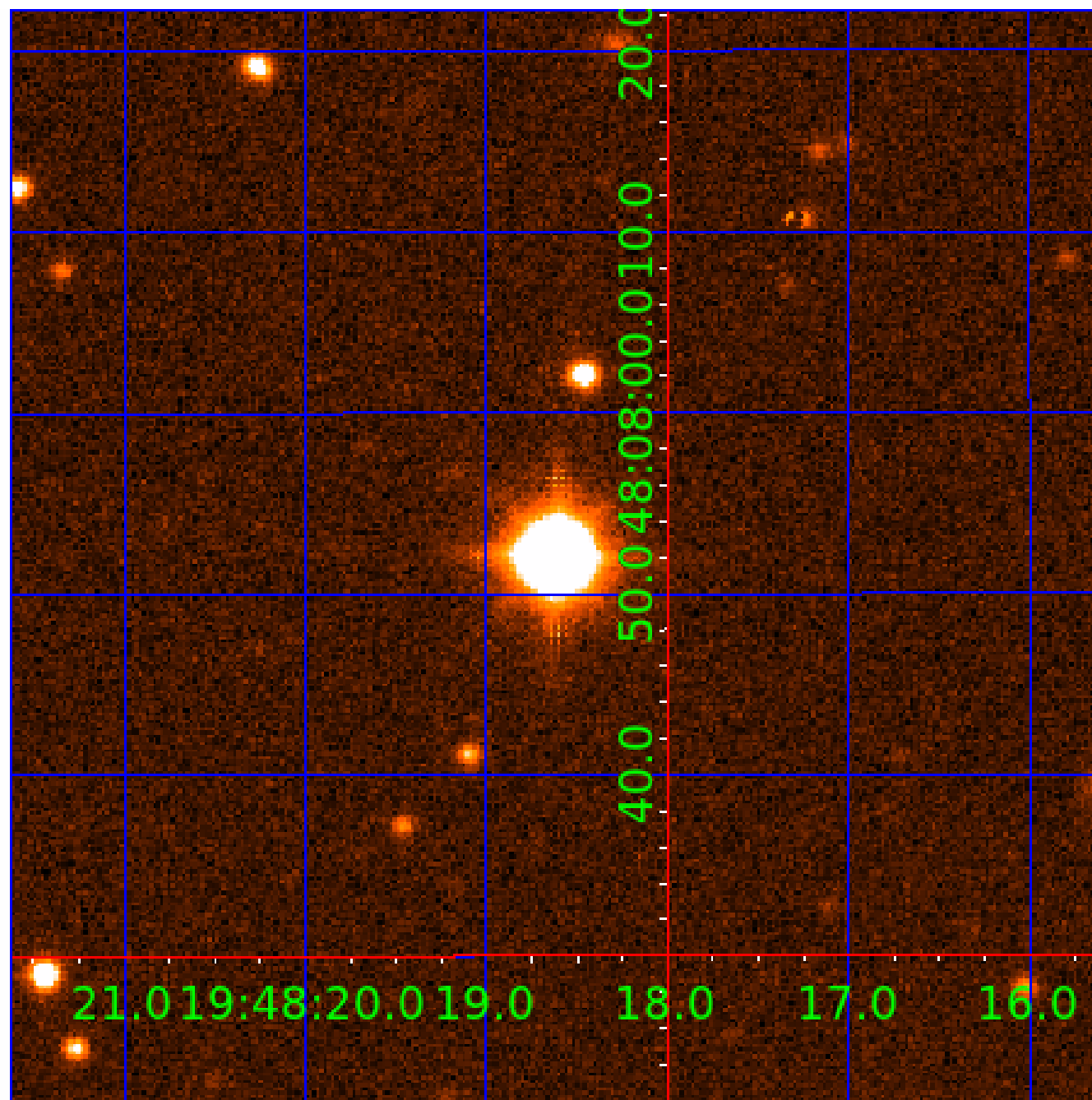


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010811753

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
010811753-01	OBS	No	0.770007	131.877888	46.6	1.520	9.3	2.1	2.96	7912	2.30	75136.26
010811753-02	OBS	No	0.770004	132.330503	5.7	1.657	9.3	0.3	2.96	7912	0.83	75136.60
010811753-03	OBS	No	92.521962	218.912837	3031.3	4.542	7.3	8.0	2.96	7912	29.68	126.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010811753-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
010811753-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010811753-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

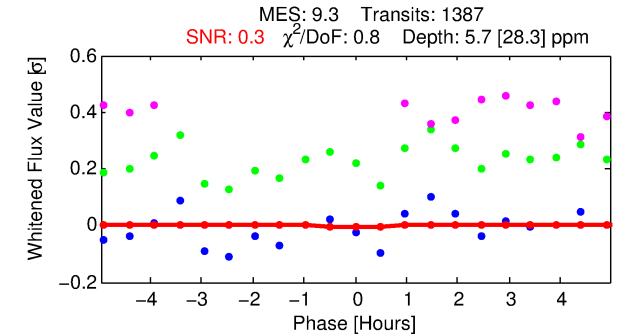
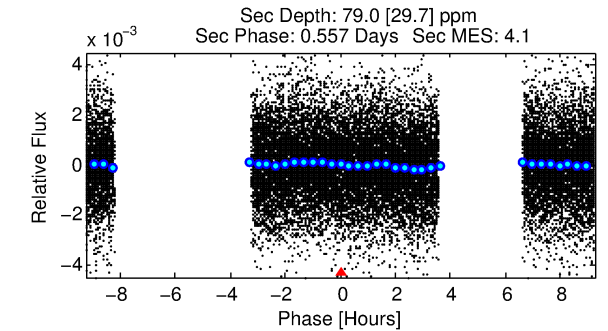
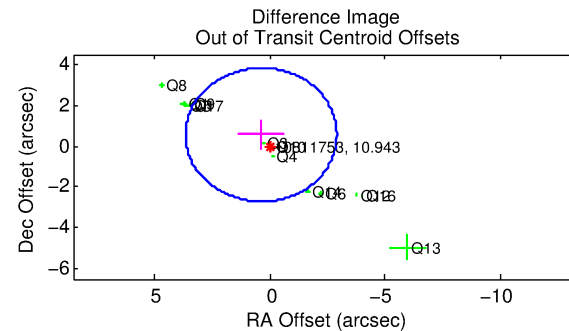
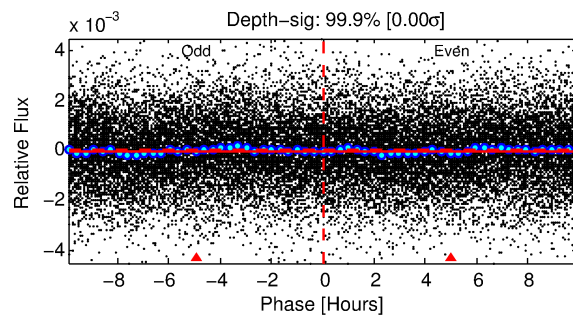
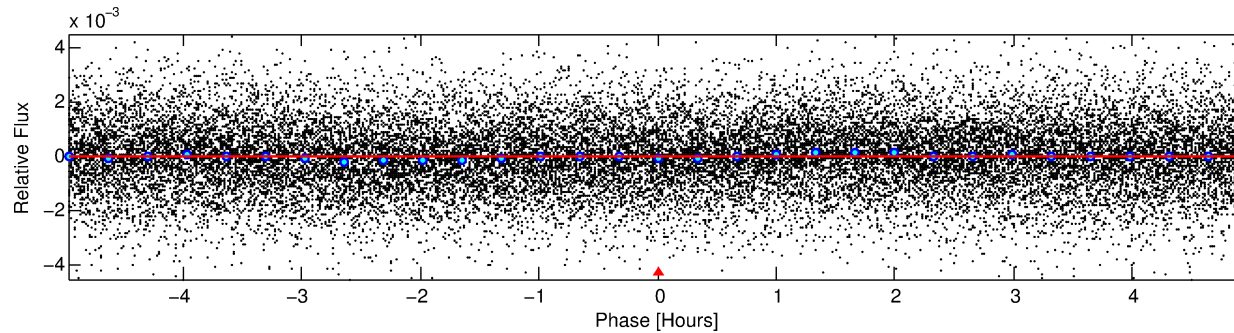
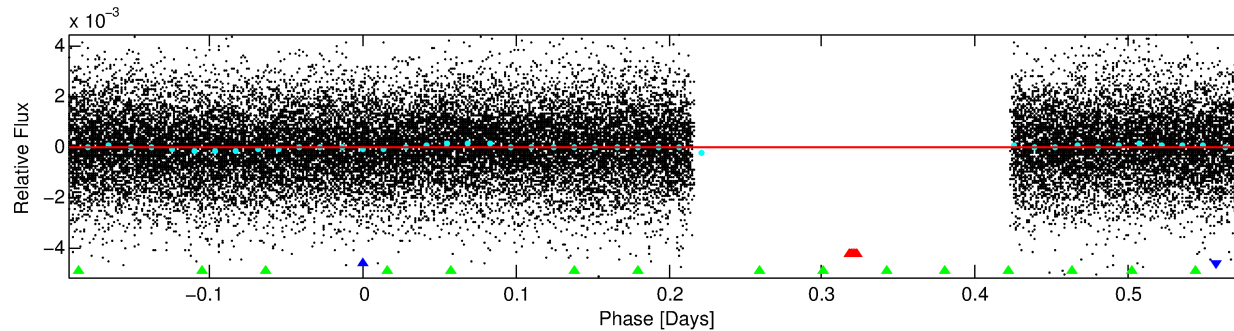
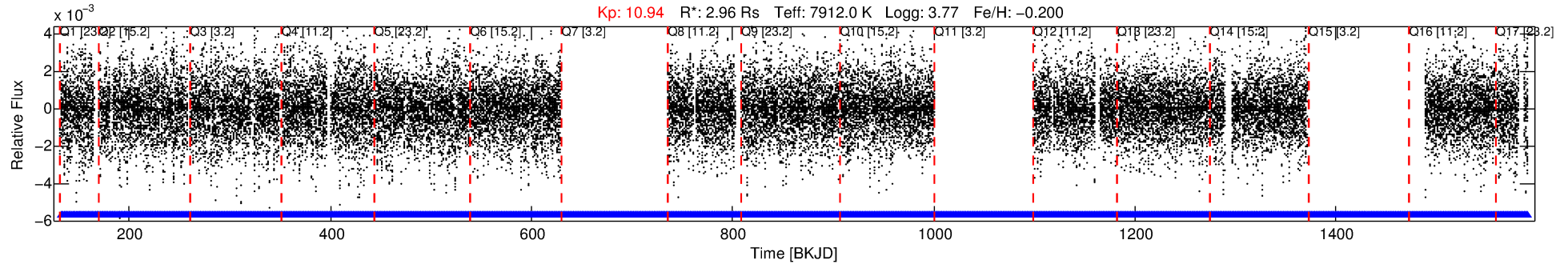
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010811753-02

No Significant Match Found

DV One-Page Summary

KIC: 10811753 Candidate: 2 of 3 Period: 0.770 d



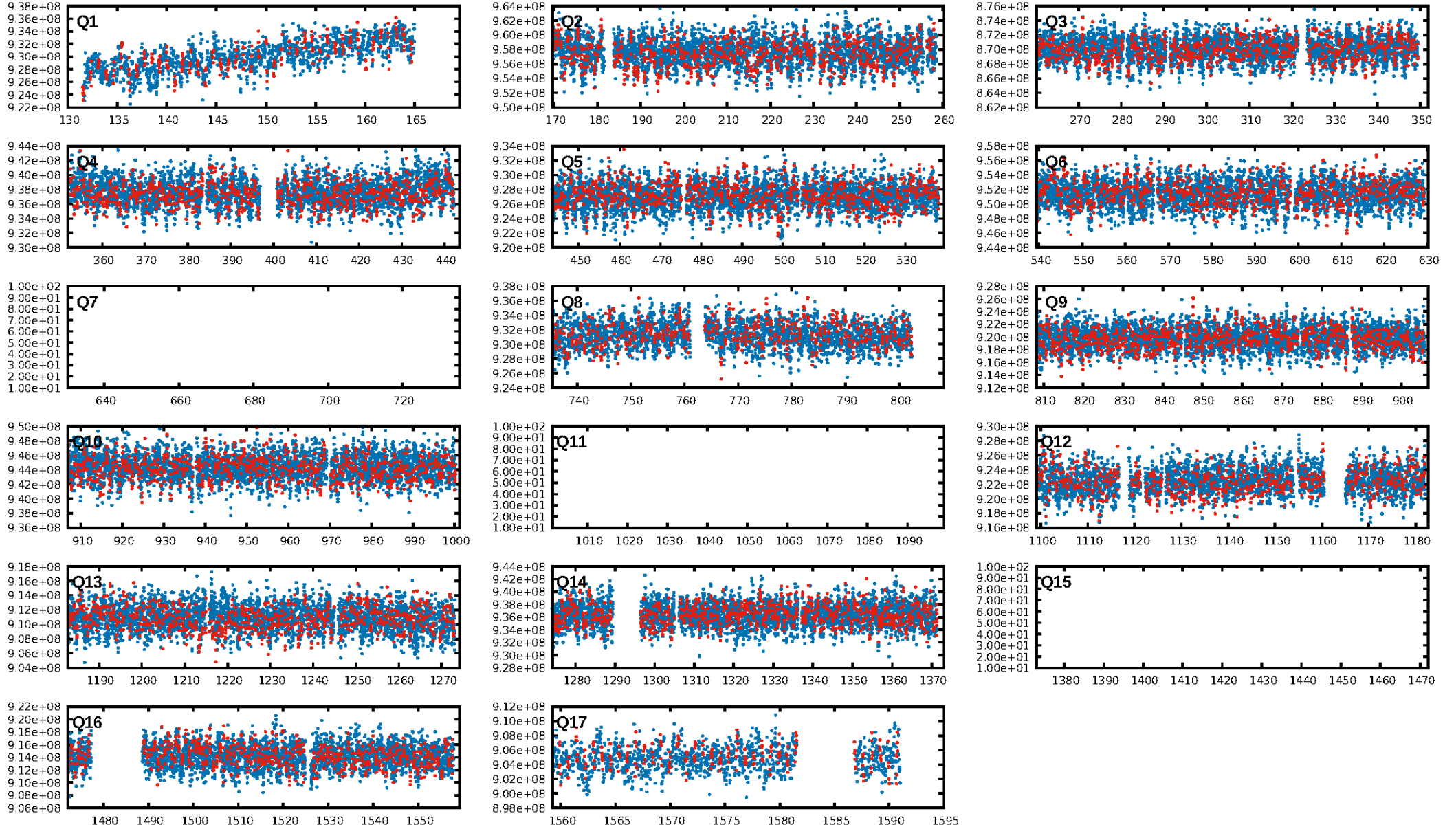
DV Fit Results:

Period = 0.77000 [0.00038] d
Epoch = 132.3305 [0.0446] BKJD
Rp/R* = 0.0026 [0.0074]
a/R* = 1.83 [11.26]
b = 0.90 [1.88]
Seff = 75136.61 [28112.96]
Teq = 4222 [395] K
Rp = 0.83 [2.39] Re
a = 0.0202 [0.0048] AU
Ag = 25.73 [148.30] [0.17σ]
Teffp = 14701 [21139] K [0.50σ]

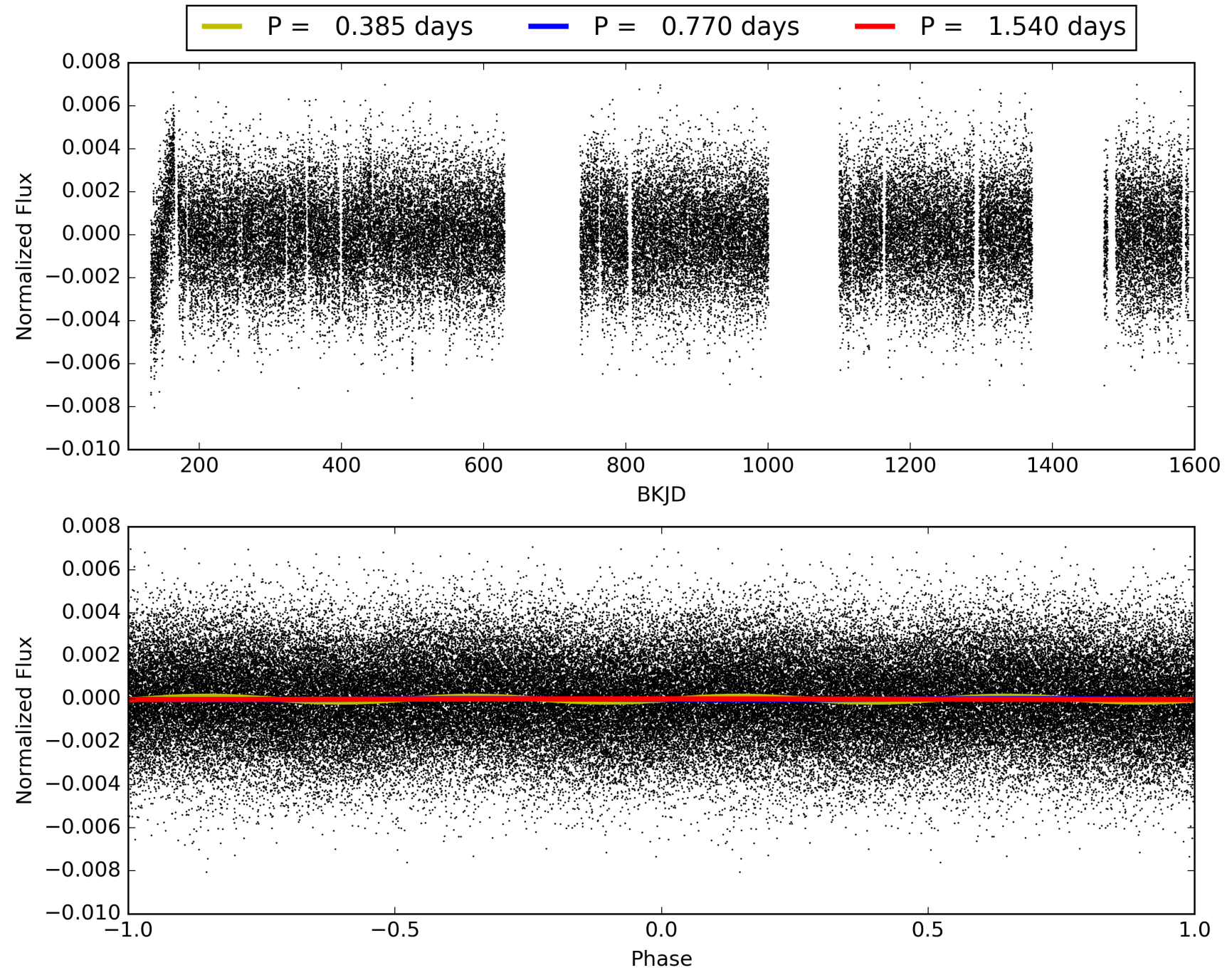
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.17e-17
RollingBand-fgt: 1.00 [1308/1308]
GhostDiagnostic-chr: 0.7689
Centroid-sig: N/A
Centroid-so: 5.176 arcsec [1.55σ]
OotOffset-rm: 0.669 arcsec [0.61σ]
KicOffset-rm: 0.881 arcsec [0.79σ]
OotOffset-st: 3/1/4/5 [13]
KicOffset-st: 3/1/4/5 [13]
DiffImageQuality-fgm: 0.38 [5/13]
DiffImageOverlap-fno: 1.00 [14/14]

TCE 010811753-02, PDC Light Curves

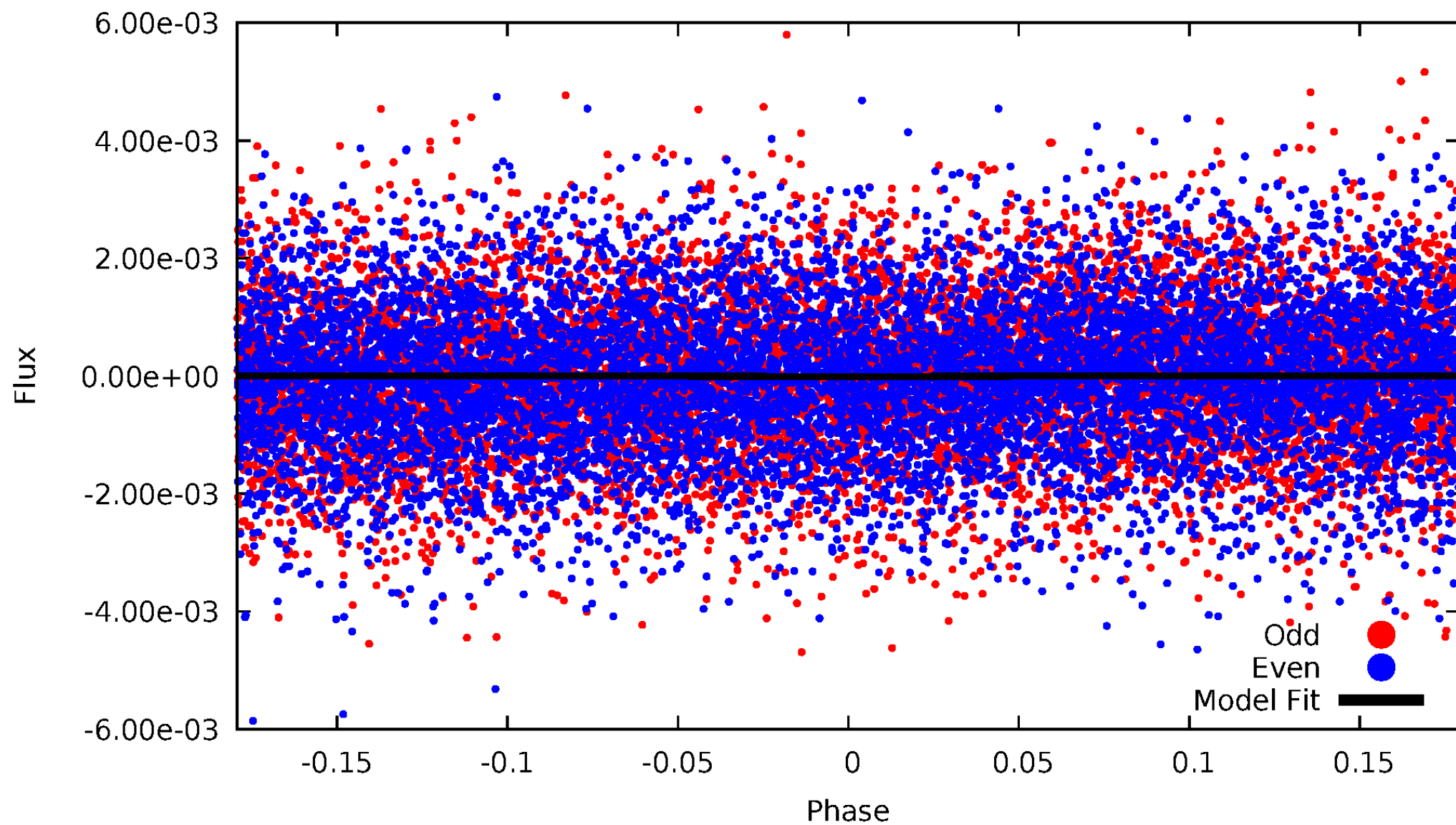


TCE 010811753-02



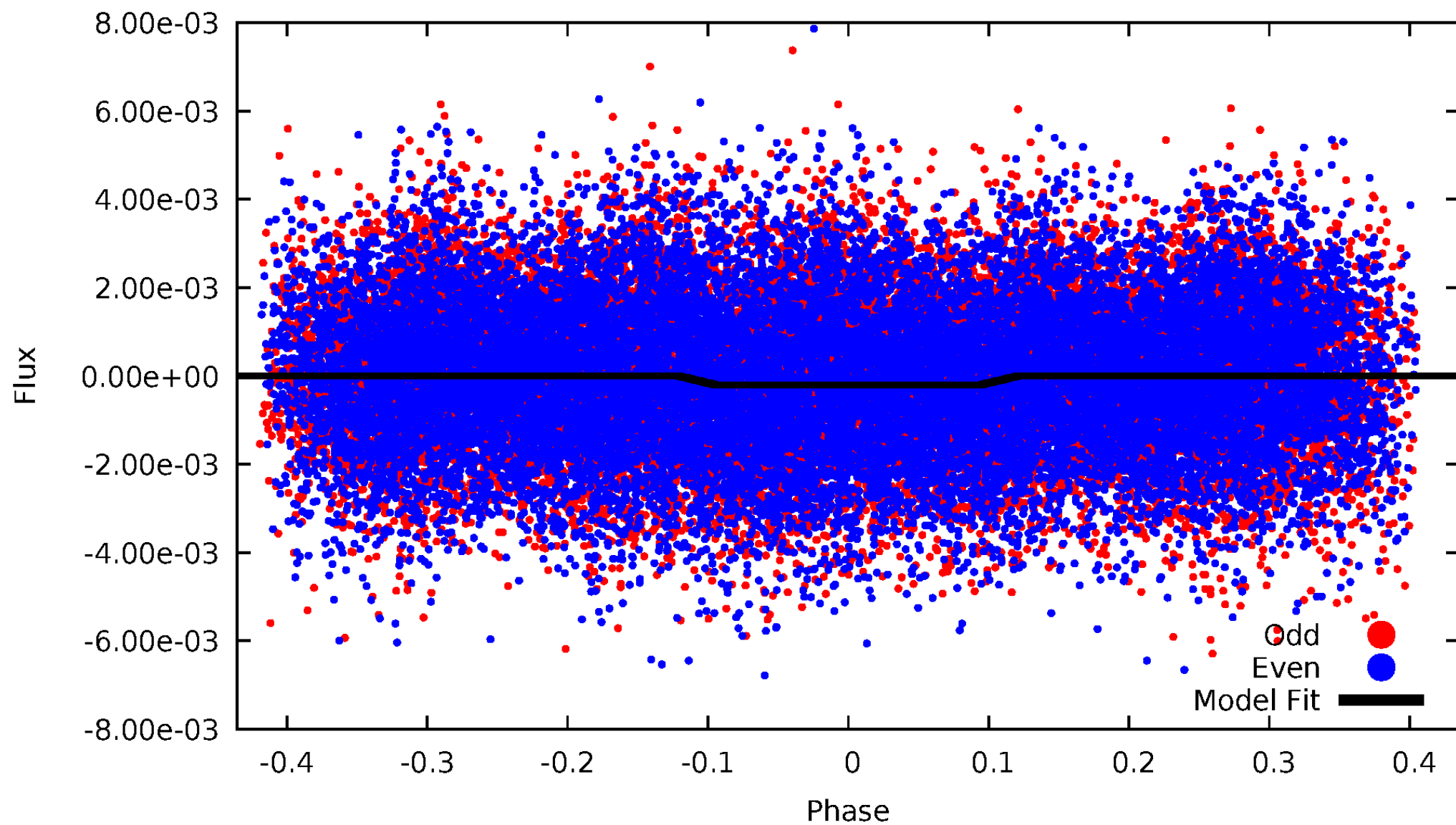
DV Odd/Even

TCE 010811753-02



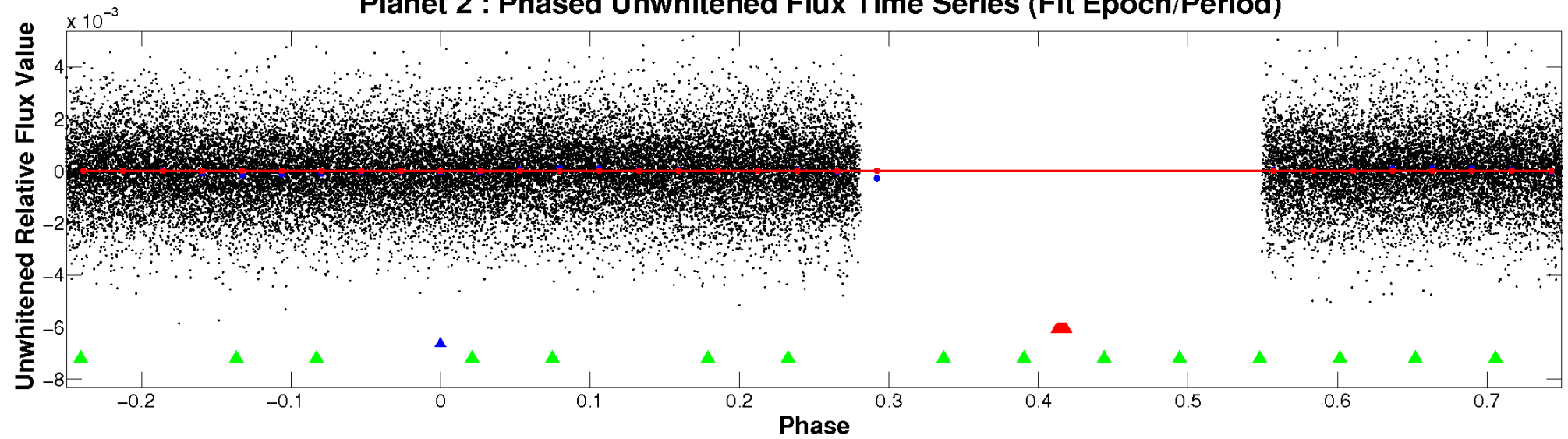
ALT Odd/Even

TCE 010811753-02

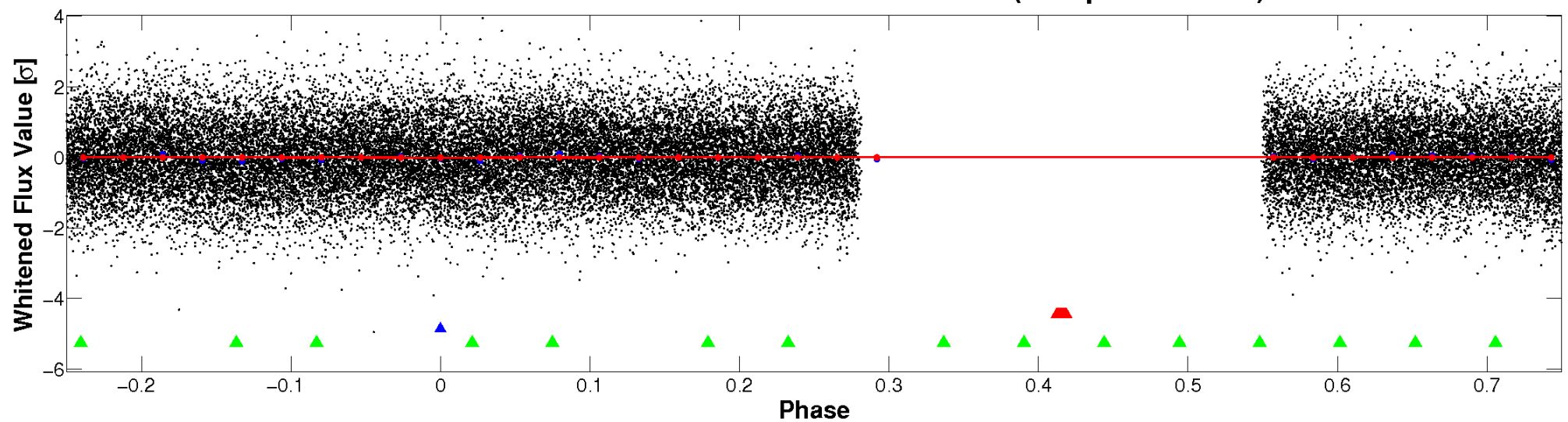


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

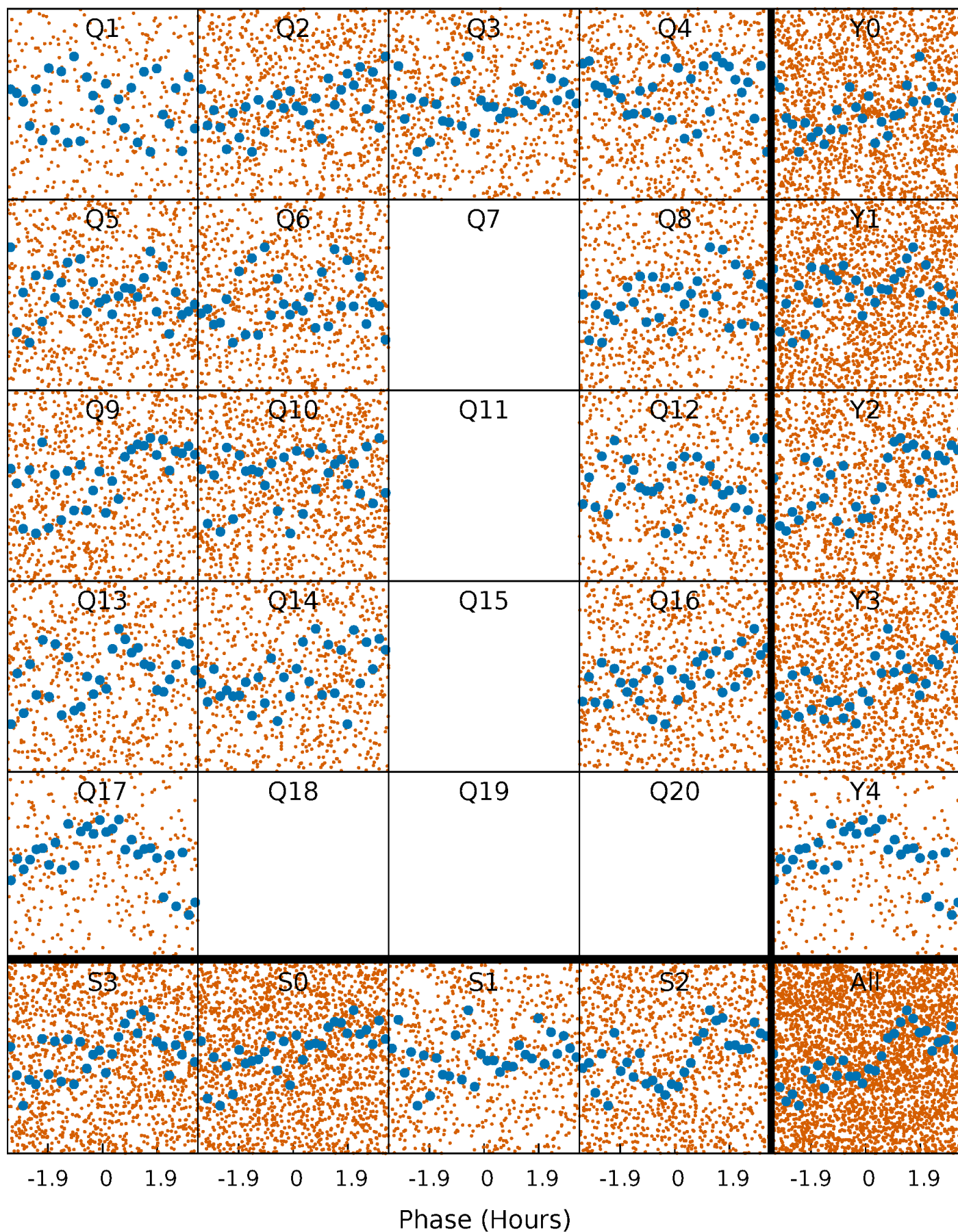


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



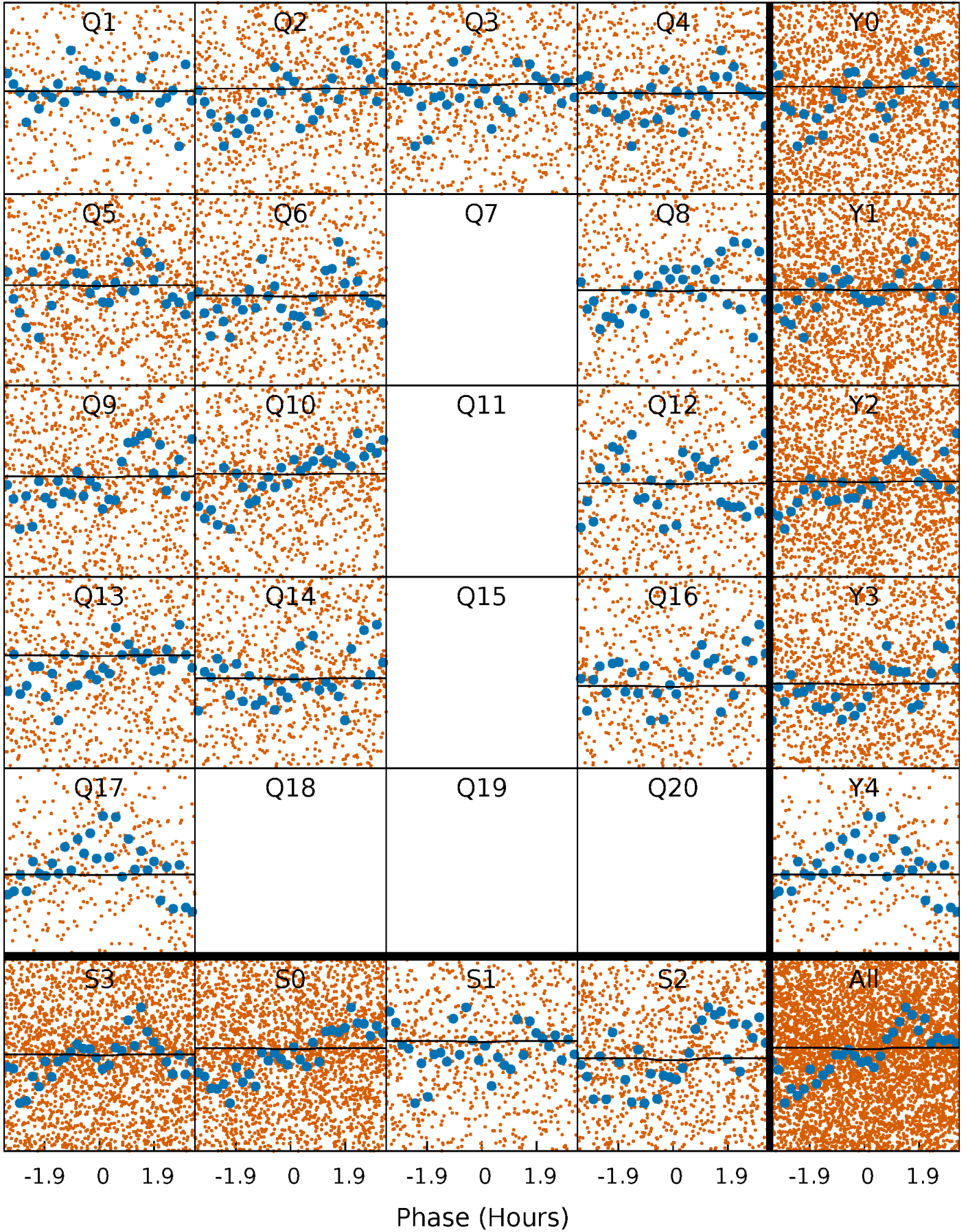
PDC Quarter-Phased Transit Curves

TCE 010811753-02 P= 0.770004 Days $T_0=132.330503$ (BKJD)



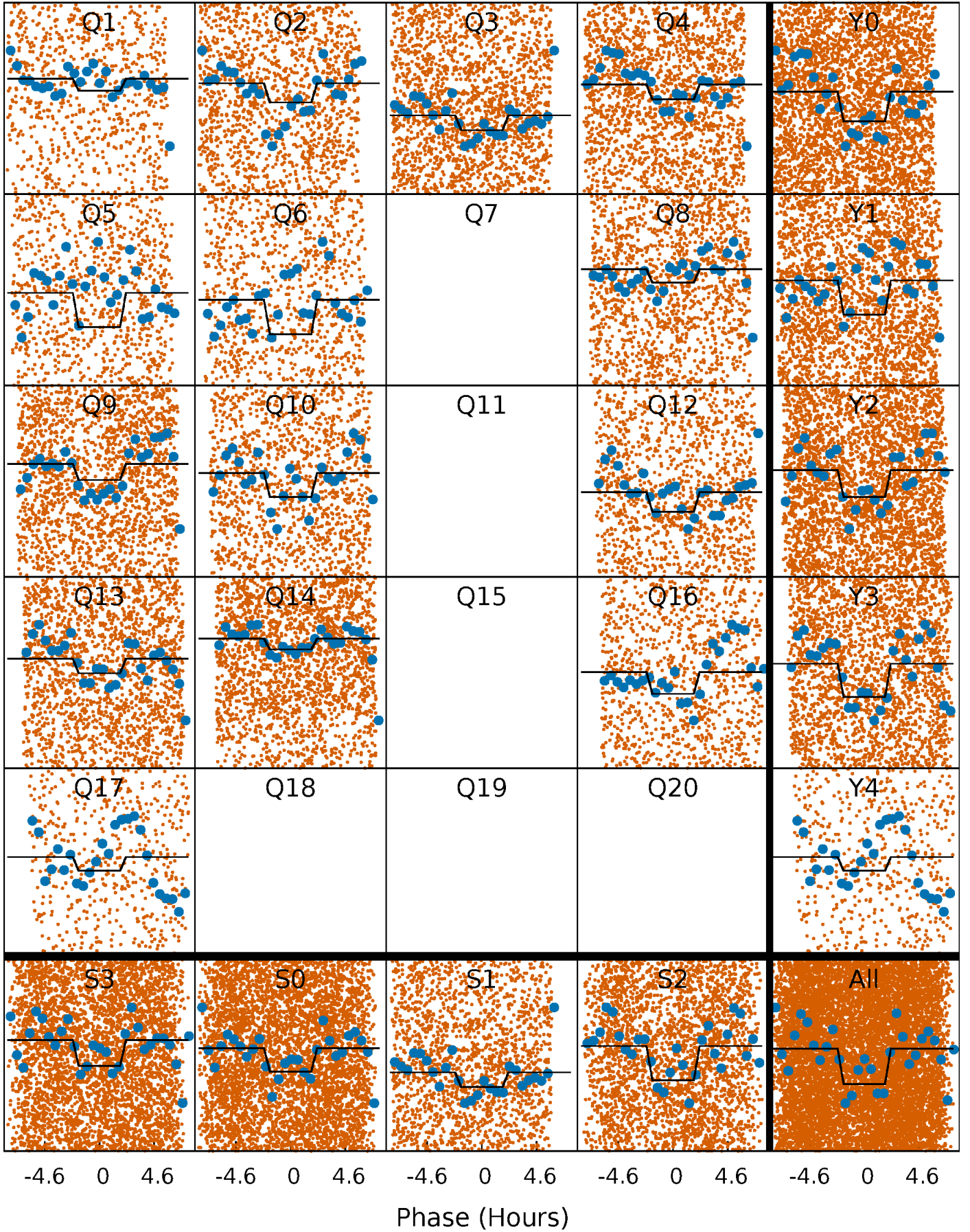
DV Quarter-Phased Transit Curves

TCE 010811753-02 P= 0.770004 Days $T_0=132.330503$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

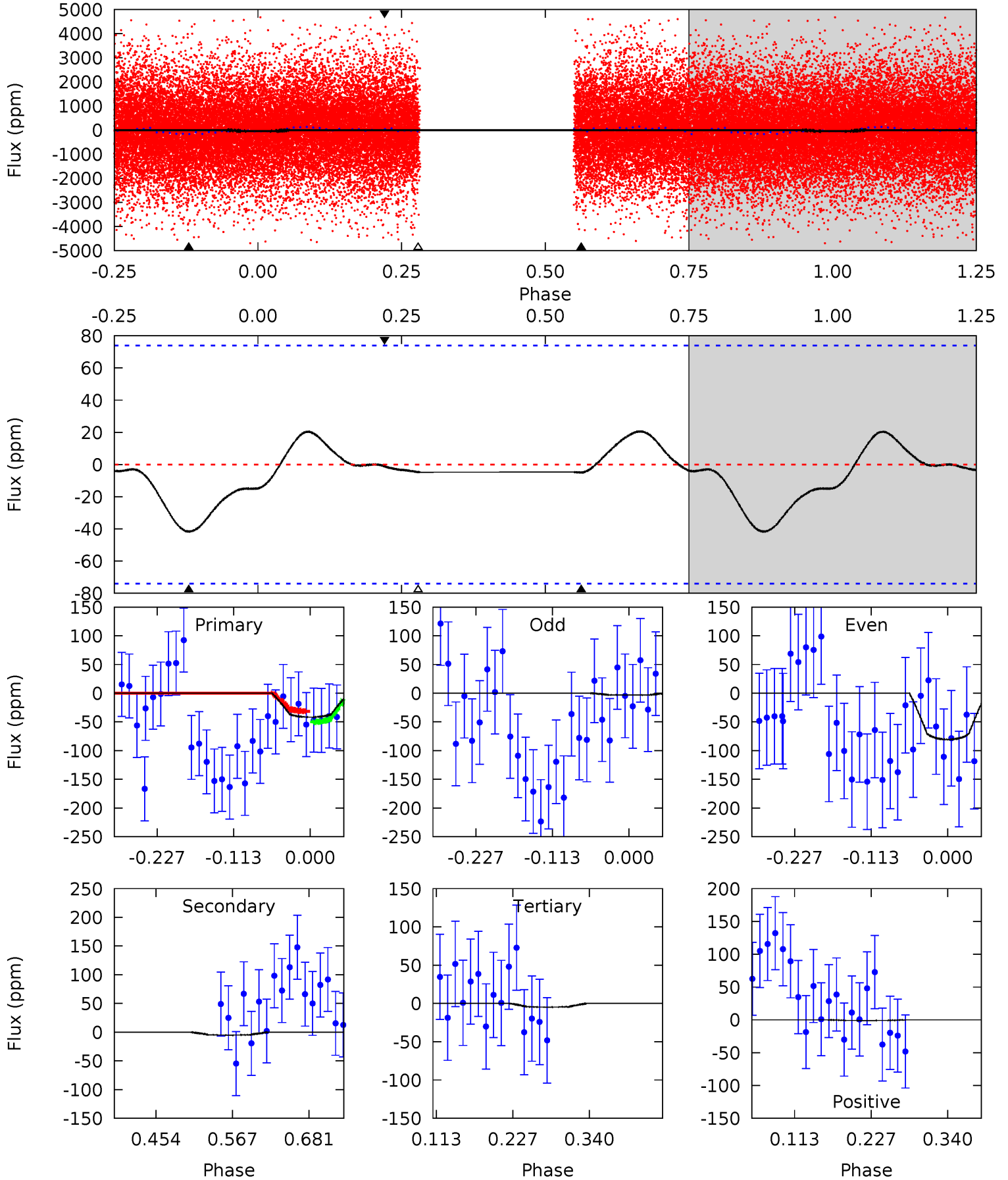
TCE 010811753-02 P= 0.769966 Days $T_0=132.306939$ (BKJD)



DV Model-Shift Uniqueness Test

010811753-02, P = 0.770004 Days, E = 130.790495 Days

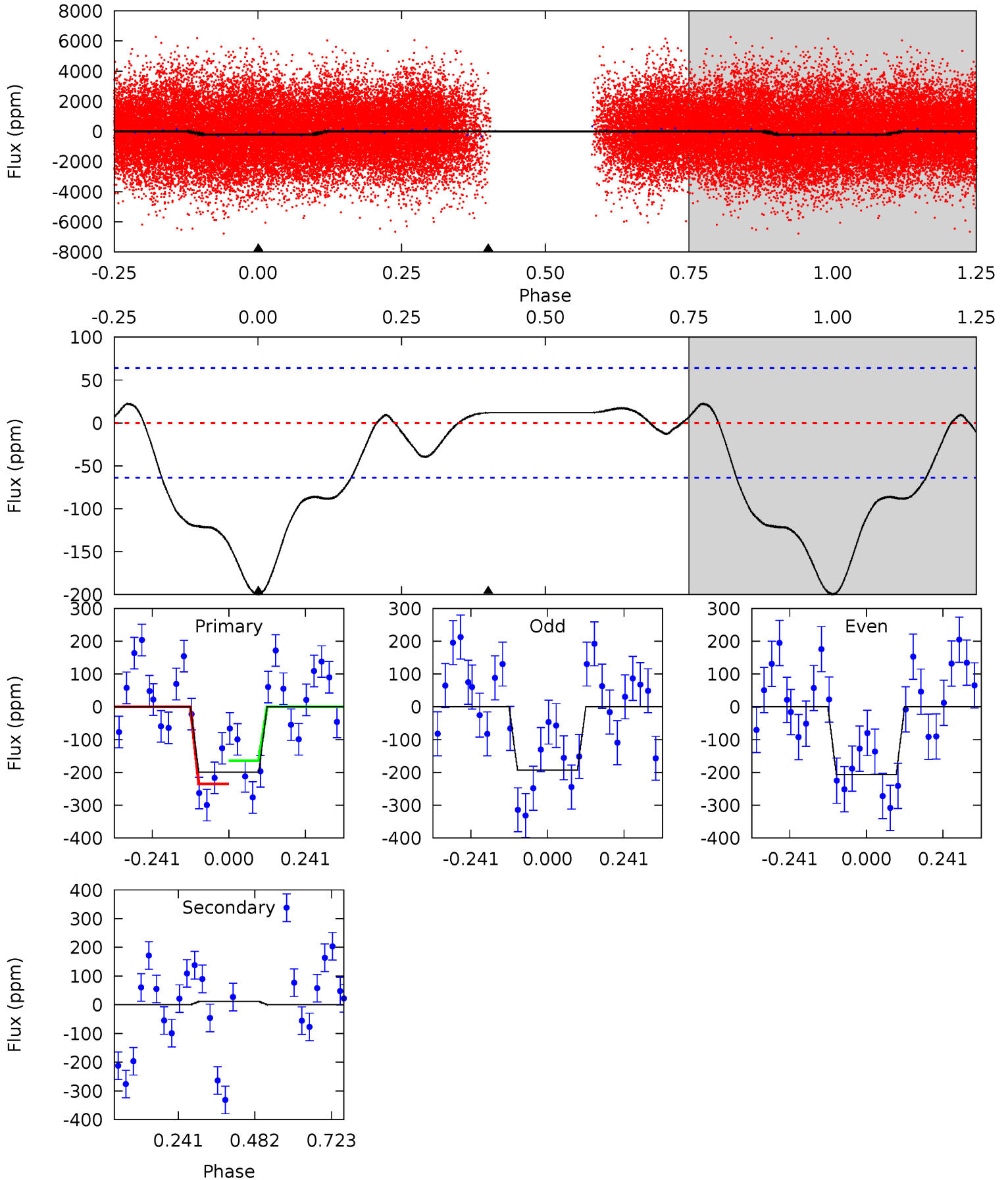
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.56	0.31	0.30	-0.06	4.54	1.58	0.56	2.26	2.62	0.02	0.38	2.38	1.44	0.33	0.57



Alt Model-Shift Uniqueness Test

010811753-02, P = 0.769966 Days, E = 130.767007 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.7	-0.80	0	0	4.38	1.17	0.61	13.7	13.7	-0.80	-0.80	0.45	1.25	0.10	2.34



Stellar Parameters For KIC 010811753

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7912^{+79}_{-79}	$3.765^{+0.216}_{-0.054}$	$-0.200^{+0.150}_{-0.150}$	$2.956^{+0.200}_{-0.748}$	$1.855^{+0.067}_{-0.188}$	$0.101^{+0.131}_{-0.014}$
	+1%/-1%	+6%/-1%	+75%/-75%	+7%/-25%	+4%/-10%	+130%/-14%
Source	SPE68	SPE68	SPE68	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010811753-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-5 ± 16	$1.94^{+1.81}_{-1.38}$	5860^{+161}_{-348}	-4049^{+12028}_{-2504}	$0.177^{+2.565}_{-1.073}$
Alt.	12 ± 15	$4.45^{+2.27}_{-2.10}$	5862^{+163}_{-359}	-5108^{+474}_{-853}	$-0.112^{+0.136}_{-0.440}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

DV Centroid Data

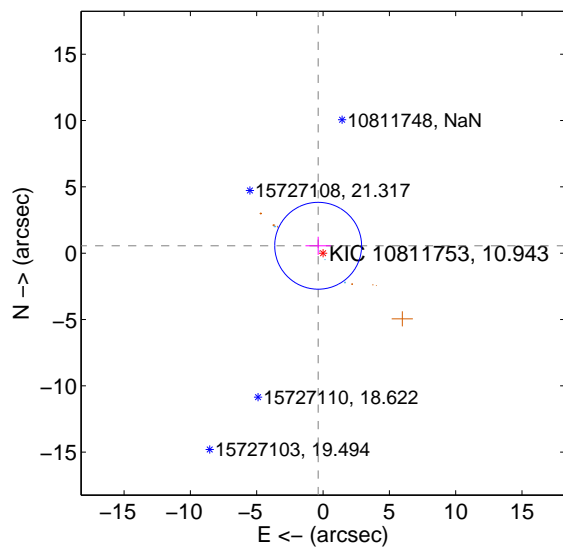
Supplemental centroid analysis for 010811753-02. **Kepler magnitude: 10.94.** Transit SNR 0.27

There are 5 quarters with good PRF difference image offsets

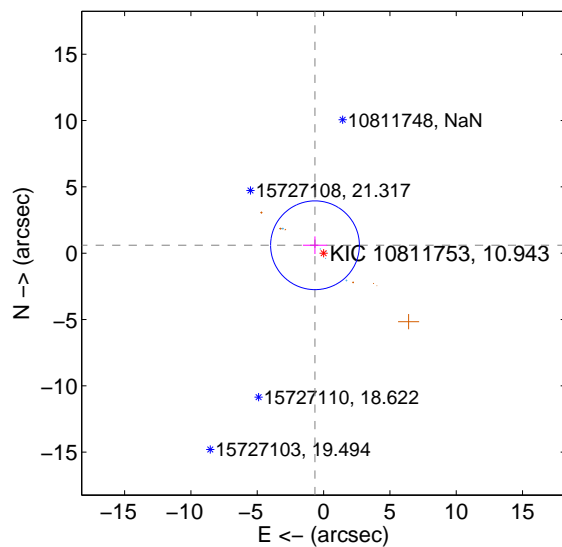
The direct PRF centroid is offset from the target star catalog position by about 0.54 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.669 ± 1.091	0.61	0.368 ± 0.958	0.559 ± 0.683
PRF-fit source offset from KIC position	0.881 ± 1.115	0.79	0.648 ± 0.912	0.597 ± 0.665
photometric centroid source offset	5.18 ± 3.34	1.55	4.95 ± 3.39	-1.52 ± 2.72

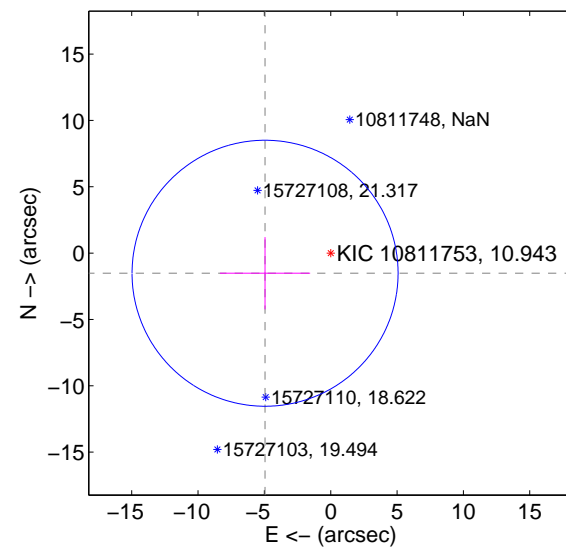
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

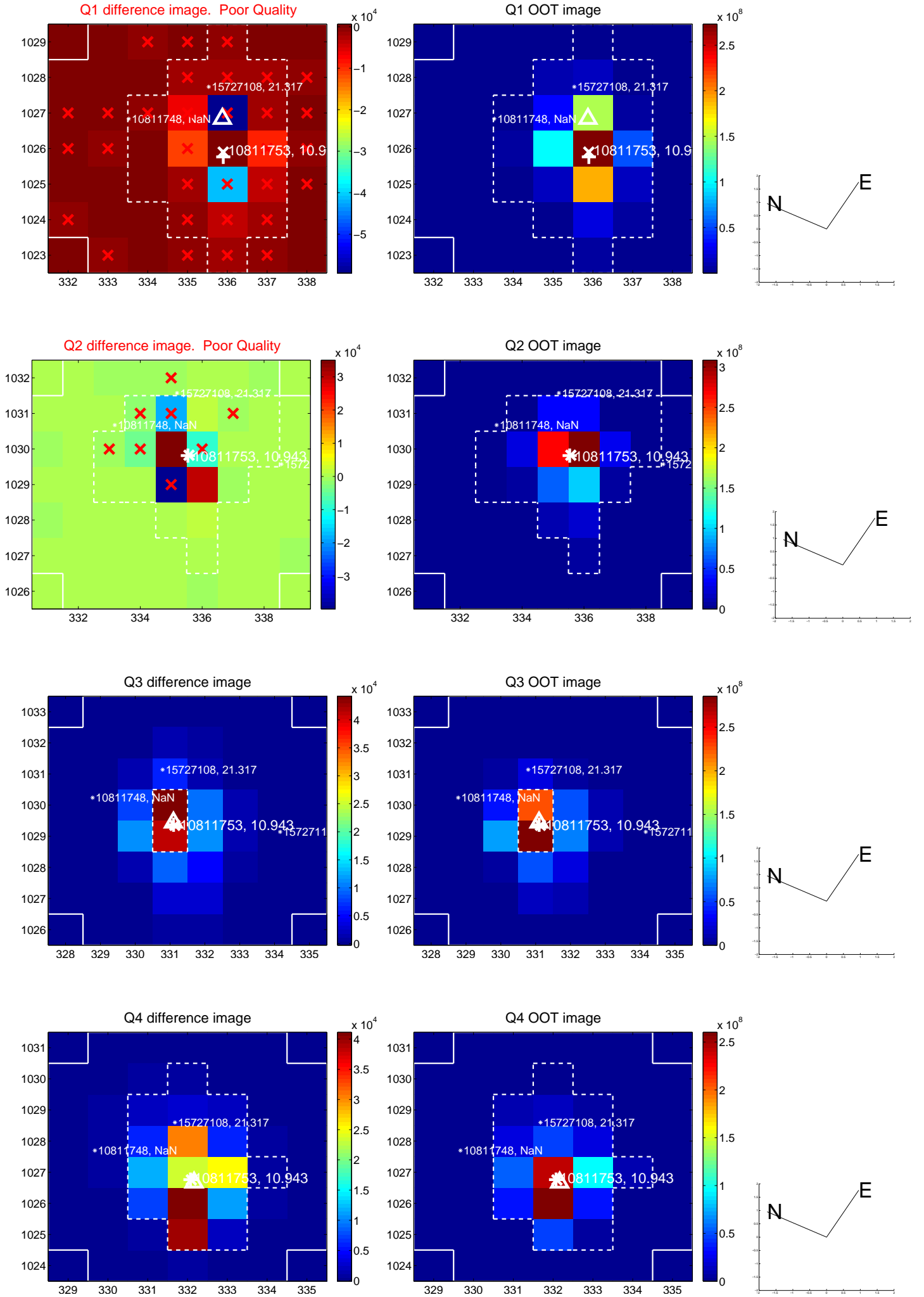


offset from photometric centroids

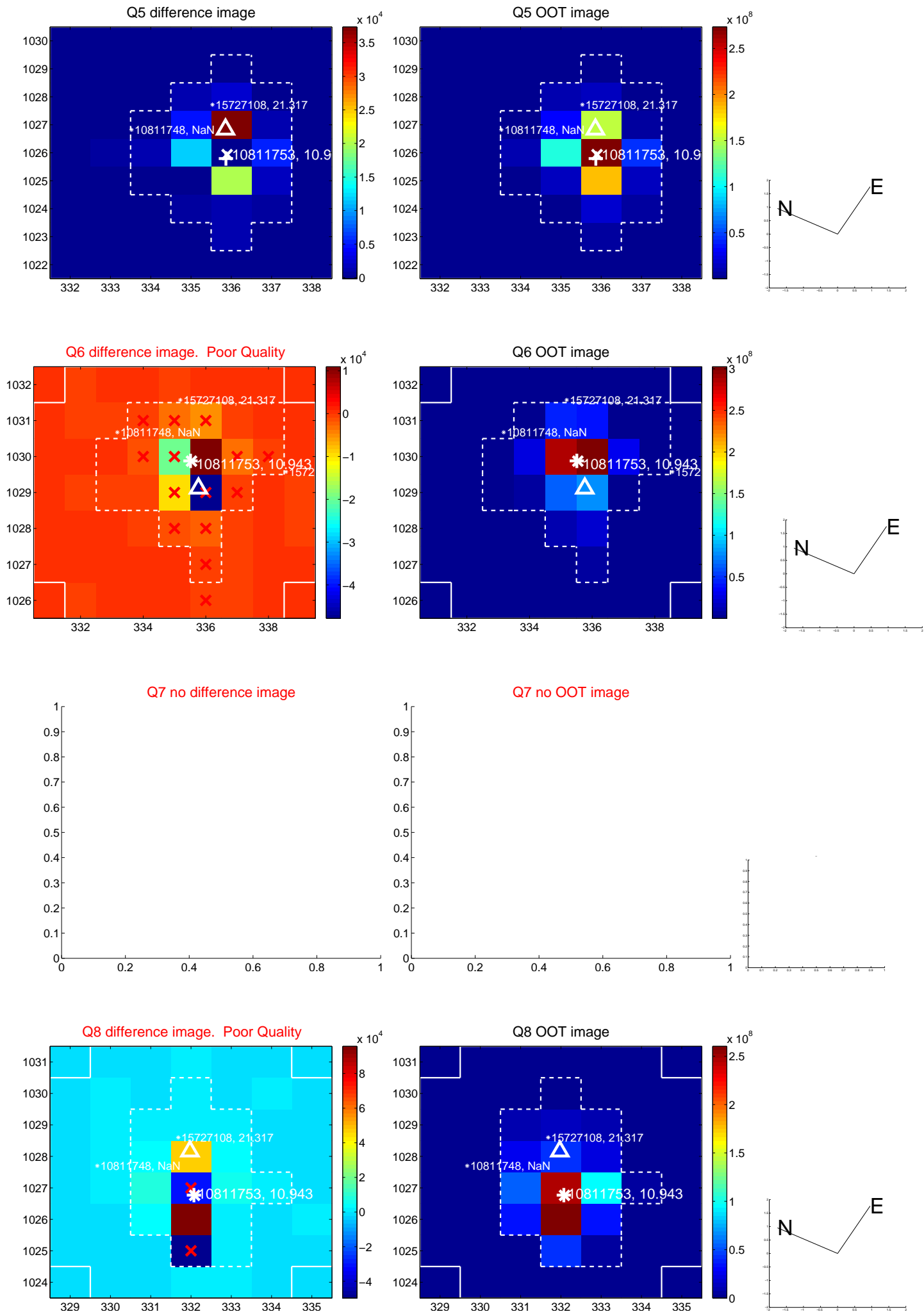


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

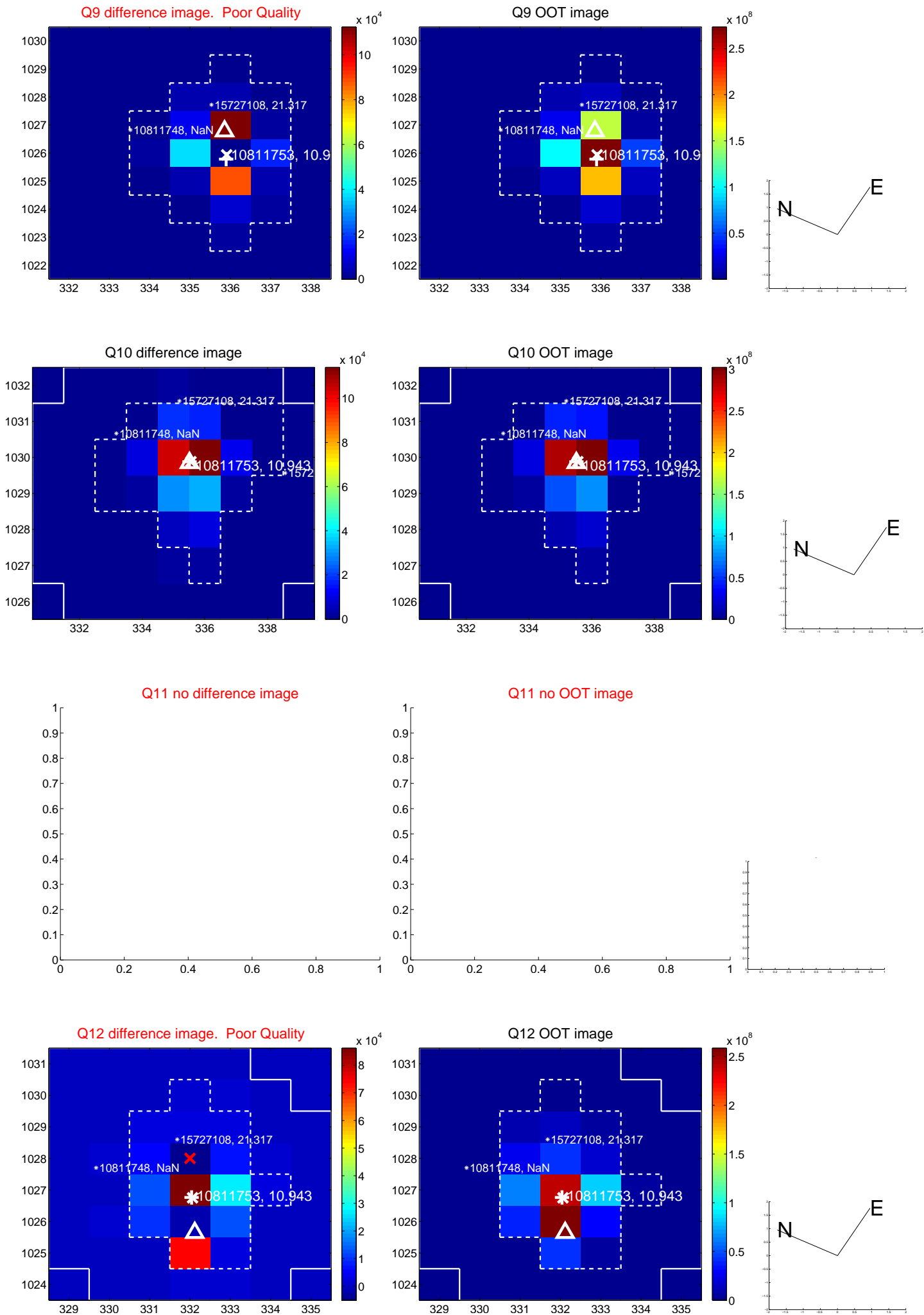
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



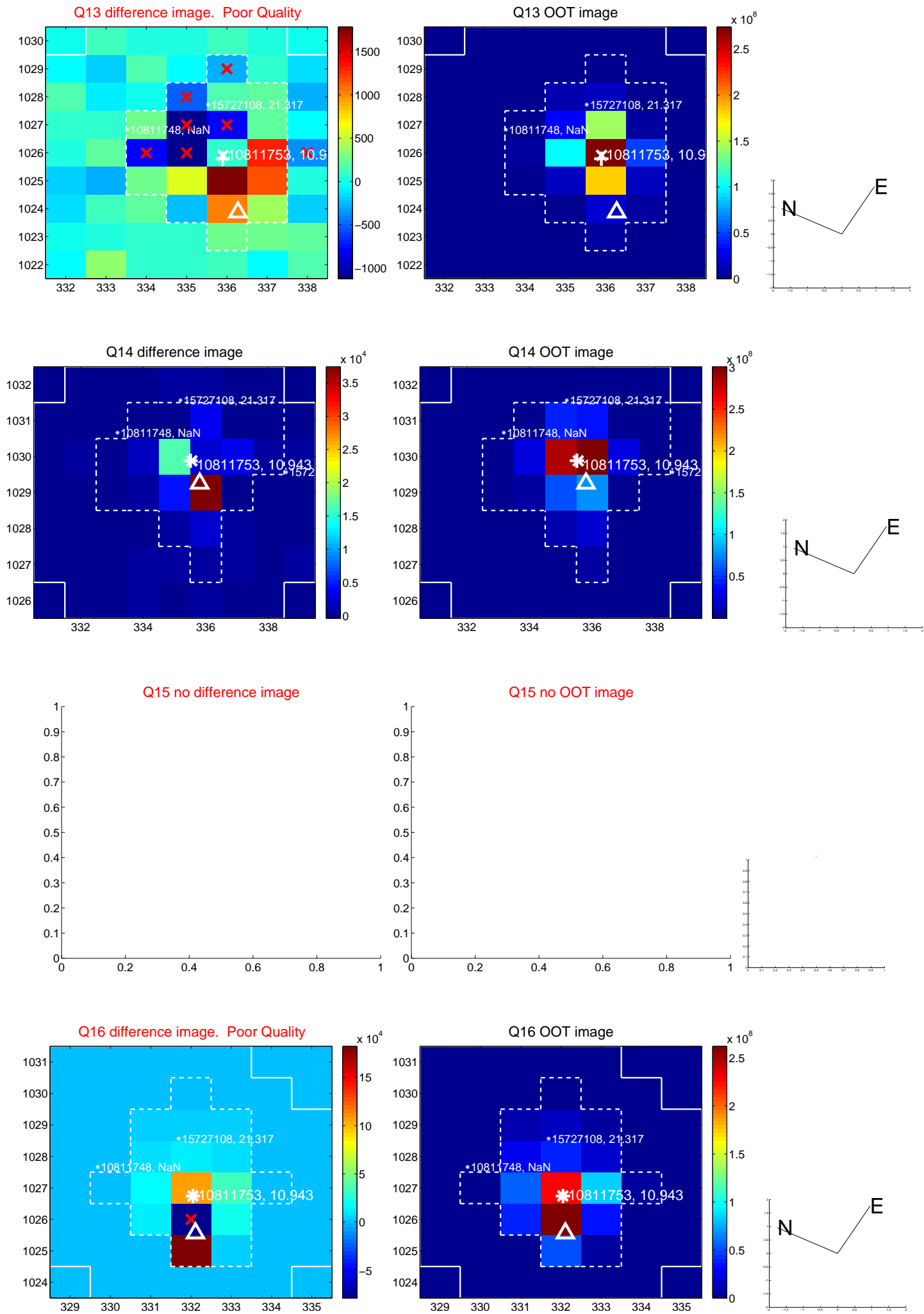
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



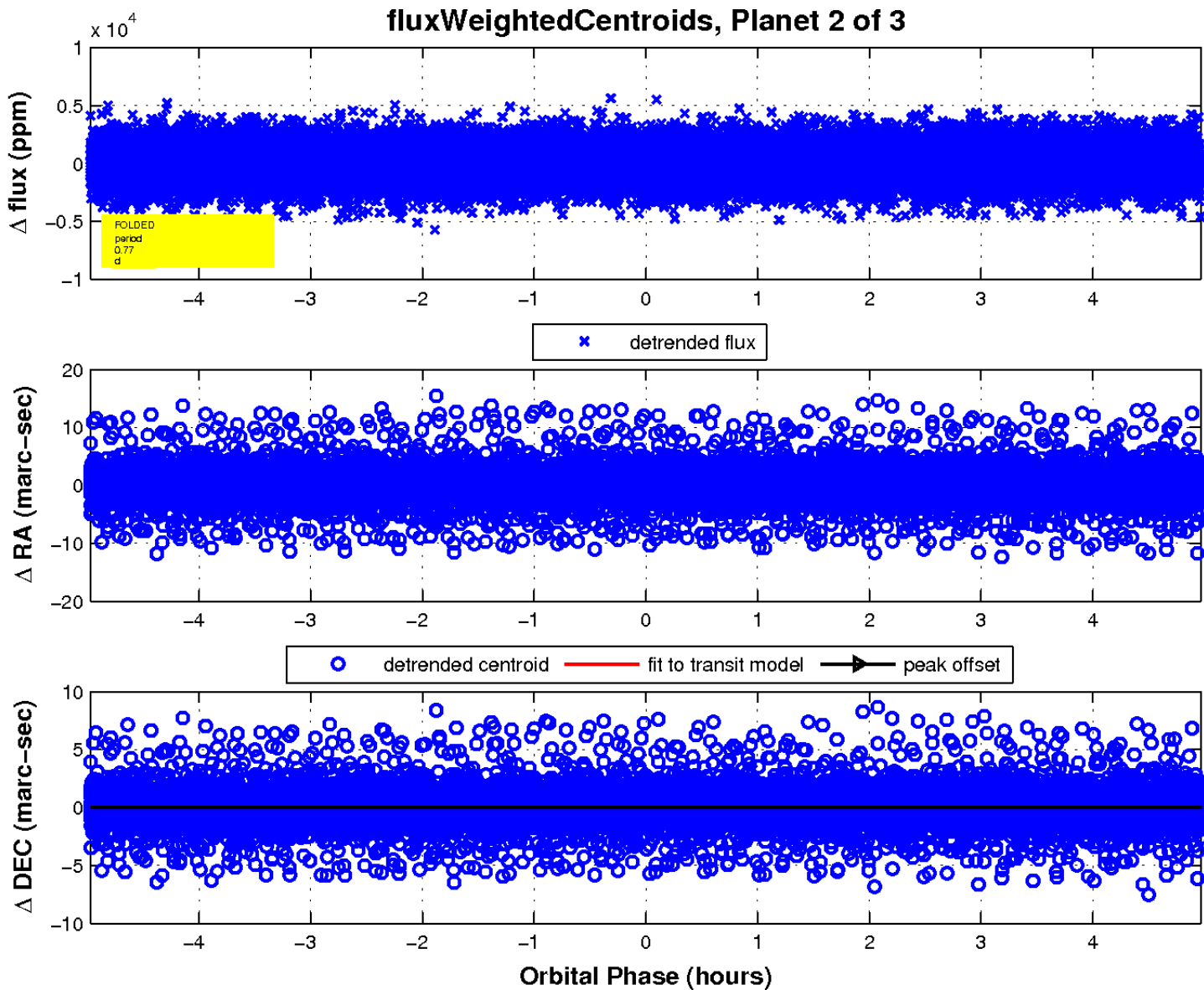
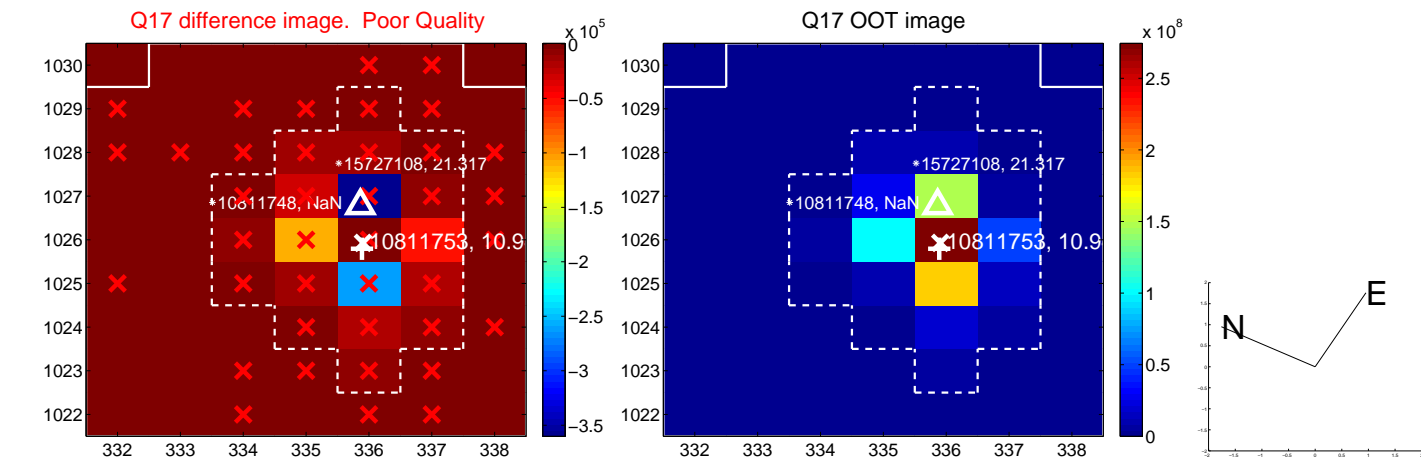
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

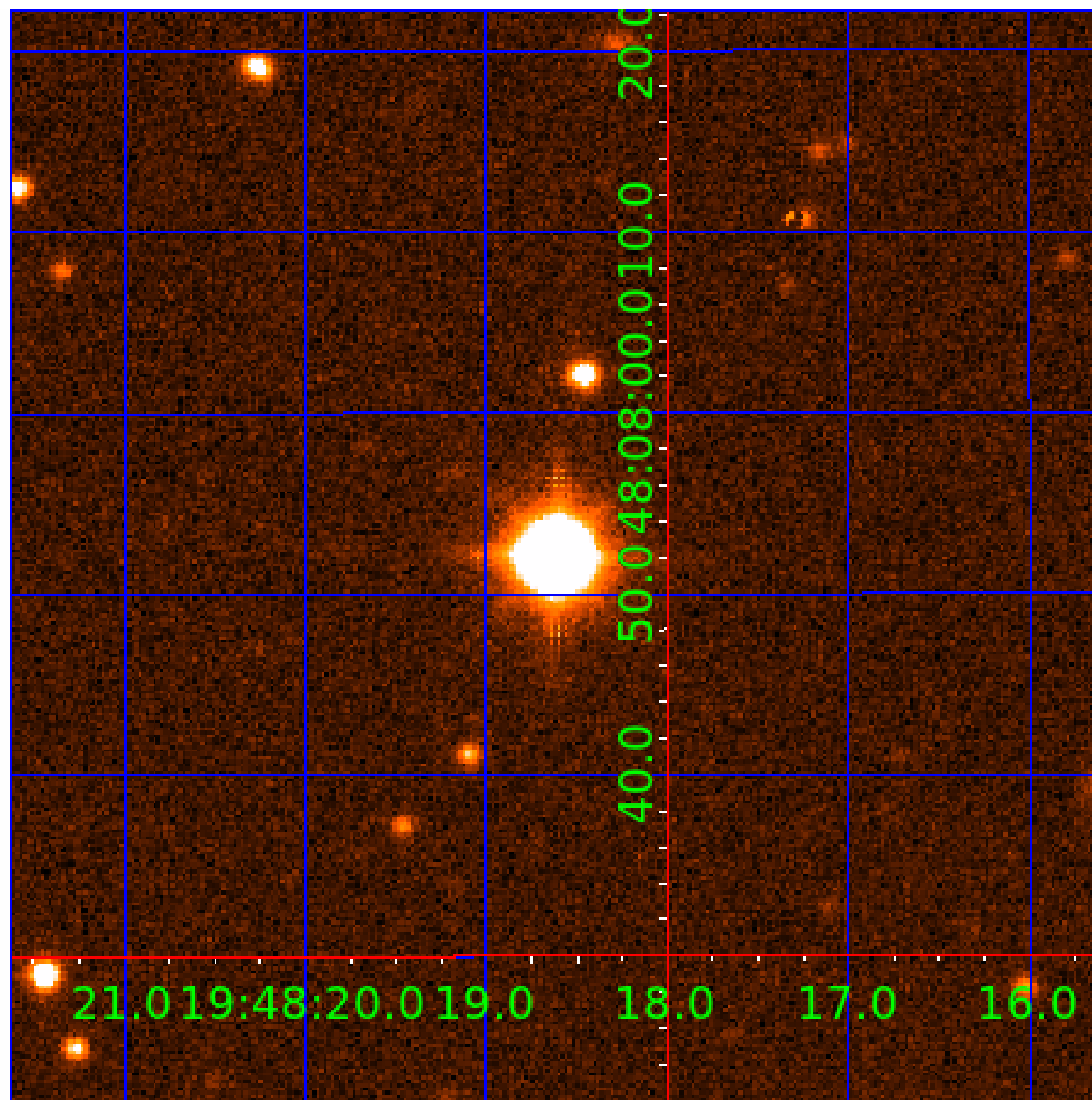


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010811753

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
010811753-01	OBS	No	0.770007	131.877888	46.6	1.520	9.3	2.1	2.96	7912	2.30	75136.26
010811753-02	OBS	No	0.770004	132.330503	5.7	1.657	9.3	0.3	2.96	7912	0.83	75136.60
010811753-03	OBS	No	92.521962	218.912837	3031.3	4.542	7.3	8.0	2.96	7912	29.68	126.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010811753-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
010811753-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010811753-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

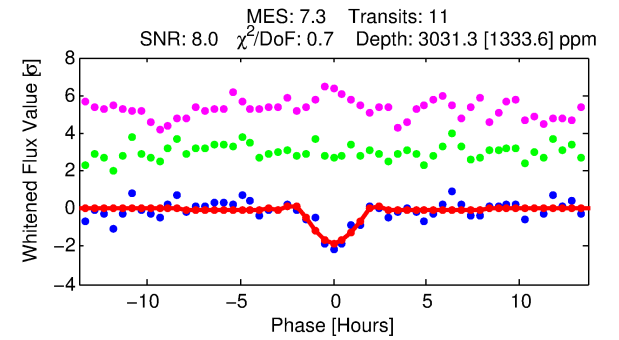
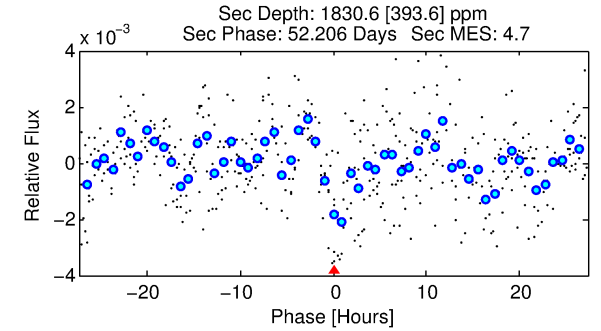
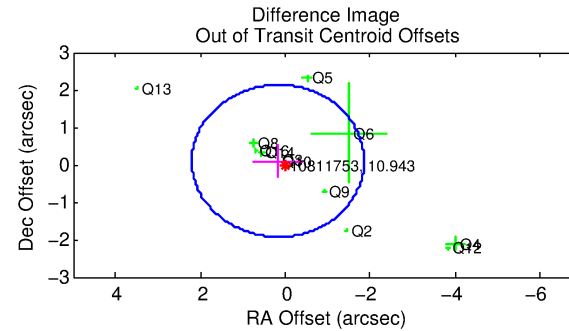
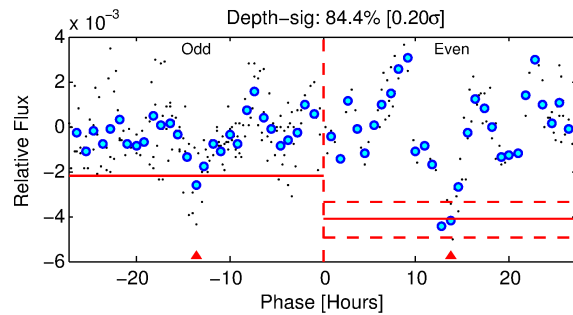
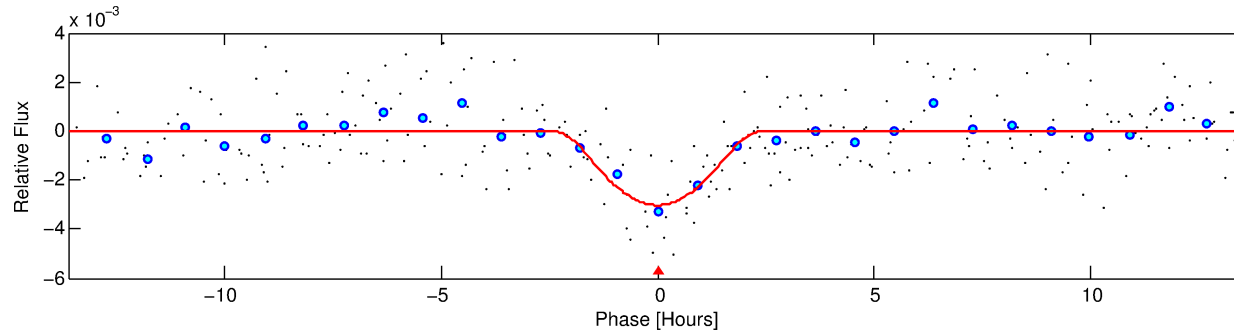
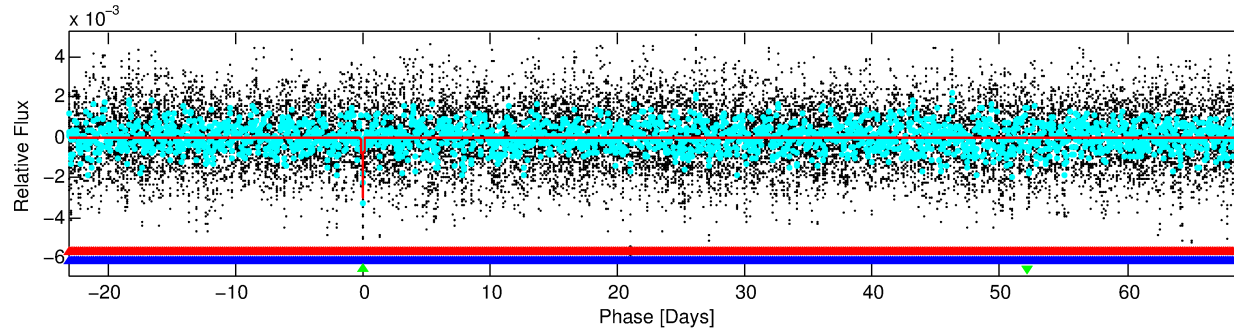
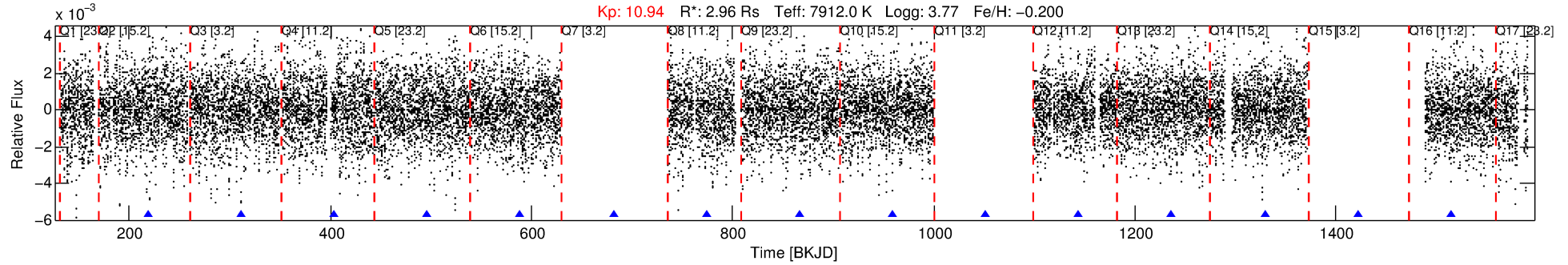
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010811753-03

No Significant Match Found

DV One-Page Summary

KIC: 10811753 Candidate: 3 of 3 Period: 92.522 d



DV Fit Results:

Period = 92.52196 [0.00120] d
Epoch = 218.9128 [0.0098] BKJD
Rp/R* = 0.0920 [0.2426]
a/R* = 68.31 [37.76]
b = 1.00 [0.37]
Seff = 126.72 [47.41]
Teq = 856 [80] K
Rp = 29.68 [78.62] Re
a = 0.4920 [0.1164] AU
Ag = 276.72 [1463.88] [0.19 σ]
Teffp = 5395 [7118] K [0.64 σ]

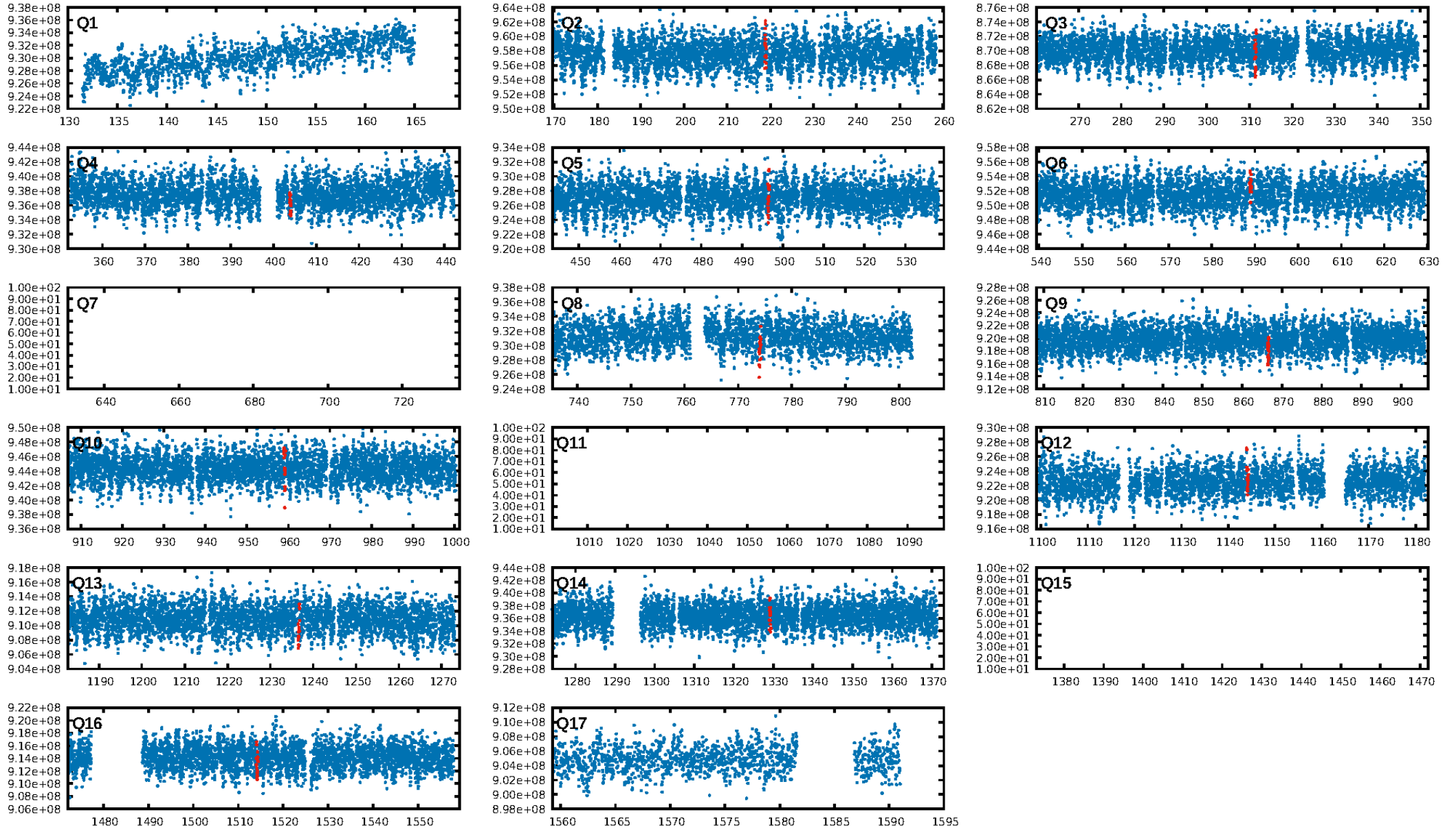
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [459.75 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 38.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 8.40e-10
RollingBand-fgt: 1.00 [11/11]
GhostDiagnostic-chr: 3.158
Centroid-sig: N/A
Centroid-so: 0.062 arcsec [1.08 σ]
OotOffset-rm: 0.195 arcsec [0.29 σ]
KicOffset-rm: 0.257 arcsec [0.50 σ]
OotOffset-st: 4/1/4/3 [12]
KicOffset-st: 4/1/4/3 [12]
DiffImageQuality-fgm: 0.42 [5/12]
DiffImageOverlap-fno: 0.00 [0/12]

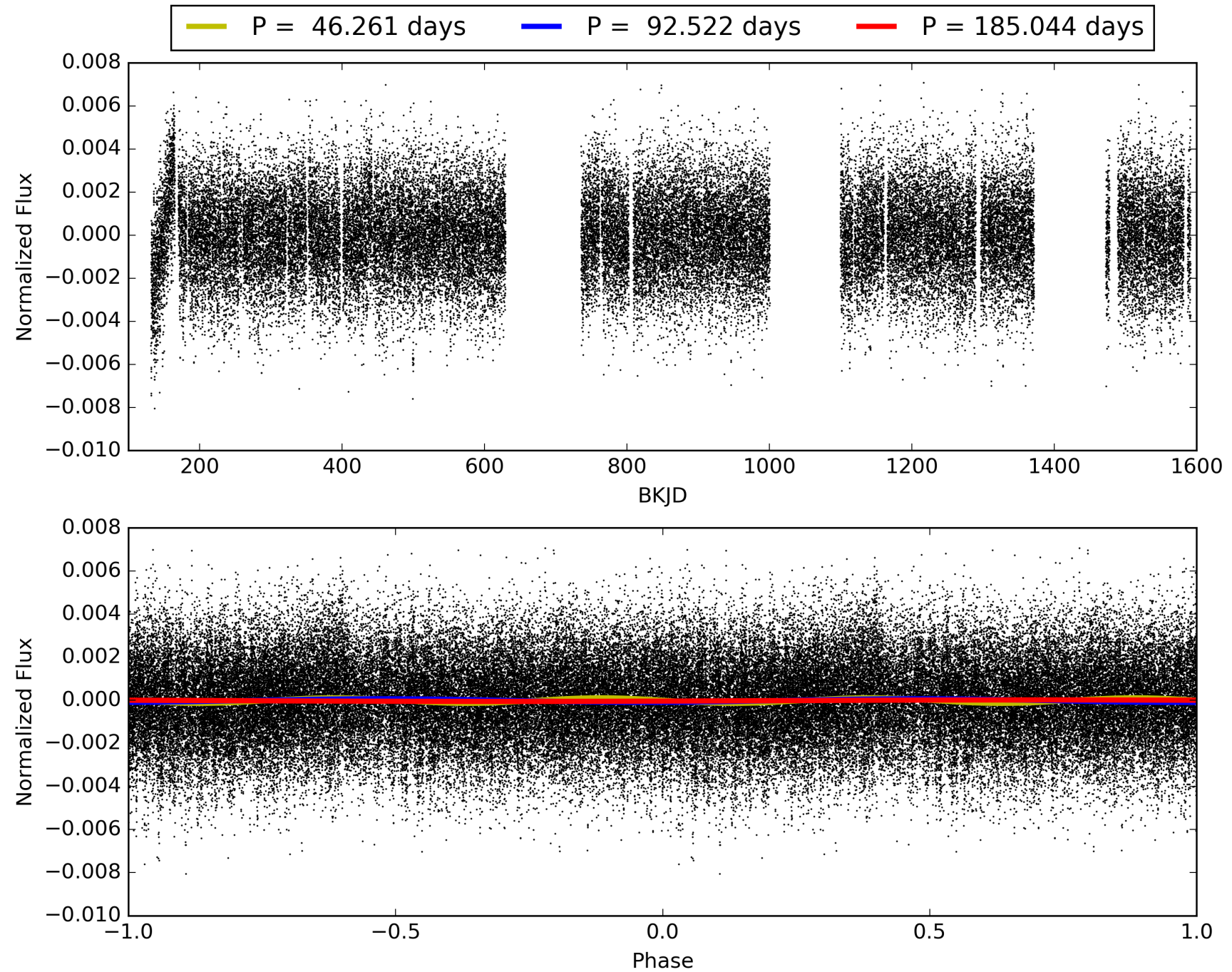
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 12:36:31 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 010811753-03, PDC Light Curves

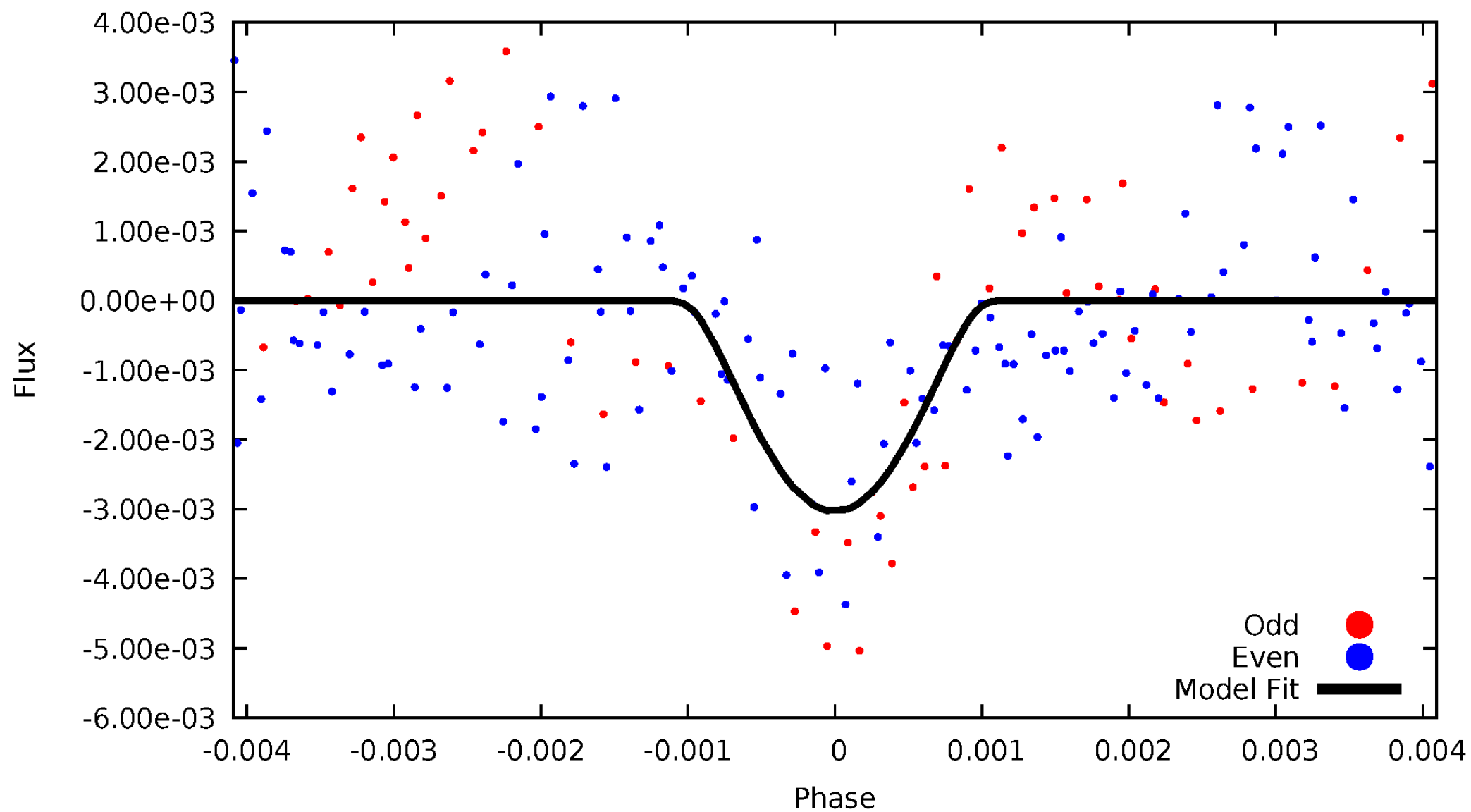


TCE 010811753-03



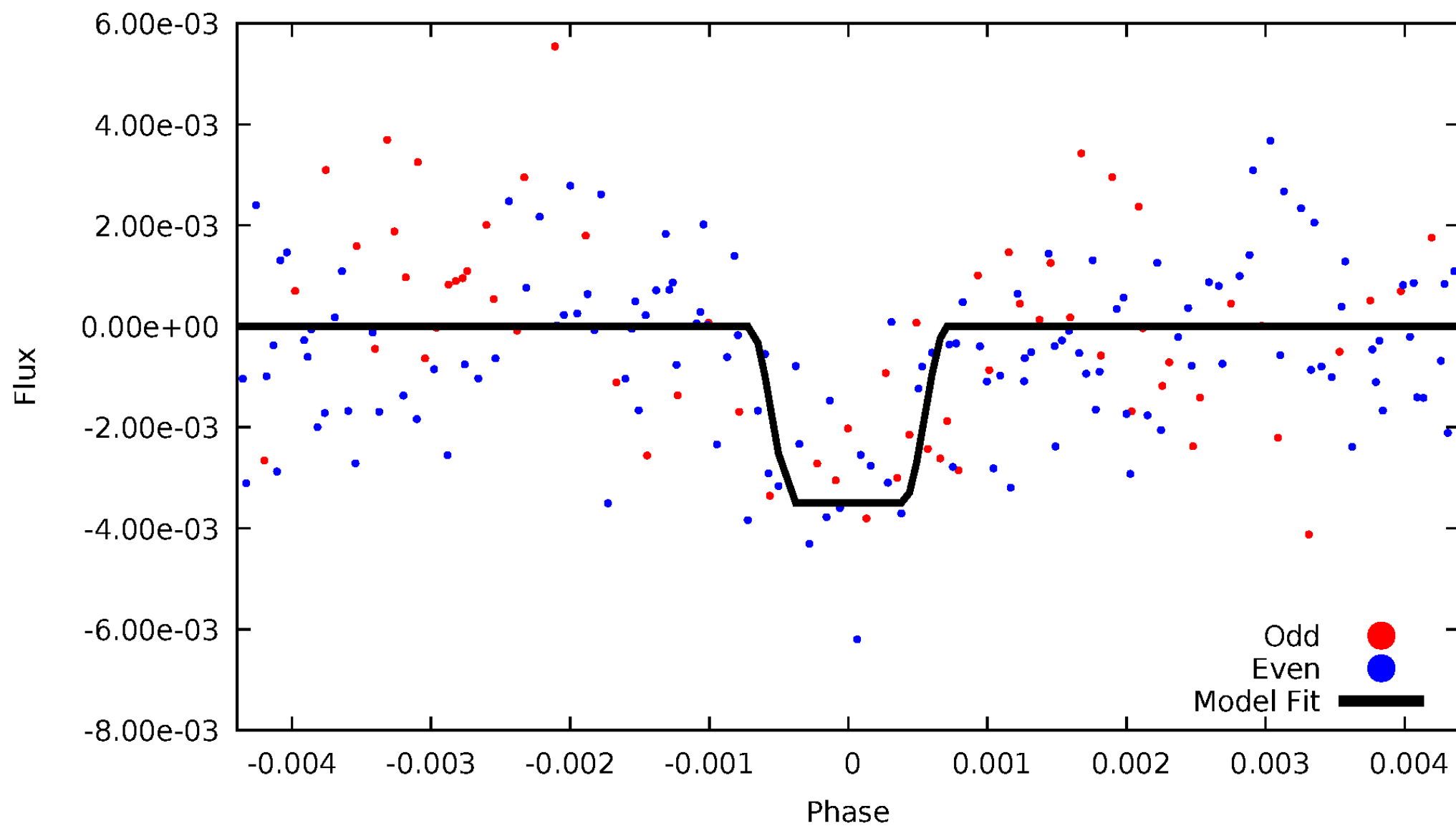
DV Odd/Even

TCE 010811753-03

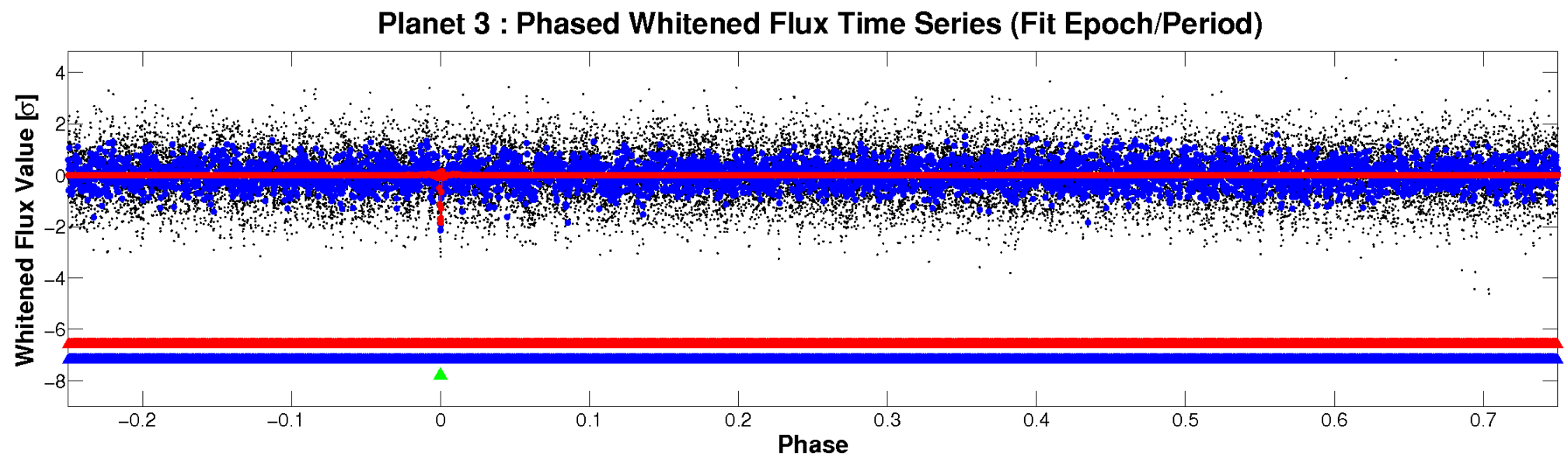
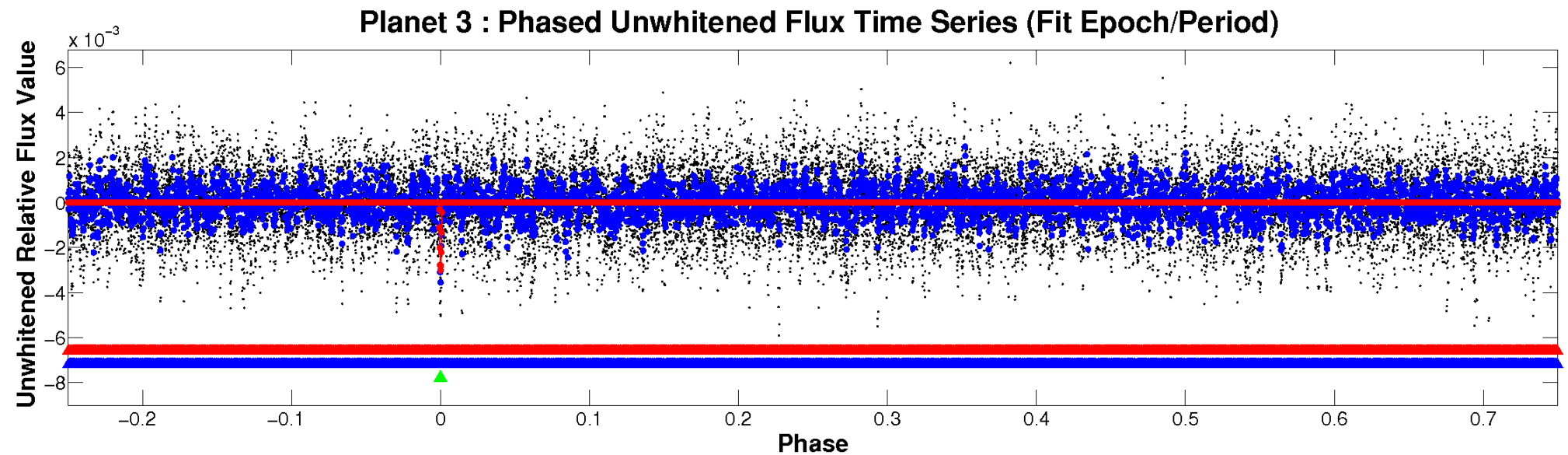


ALT Odd/Even

TCE 010811753-03

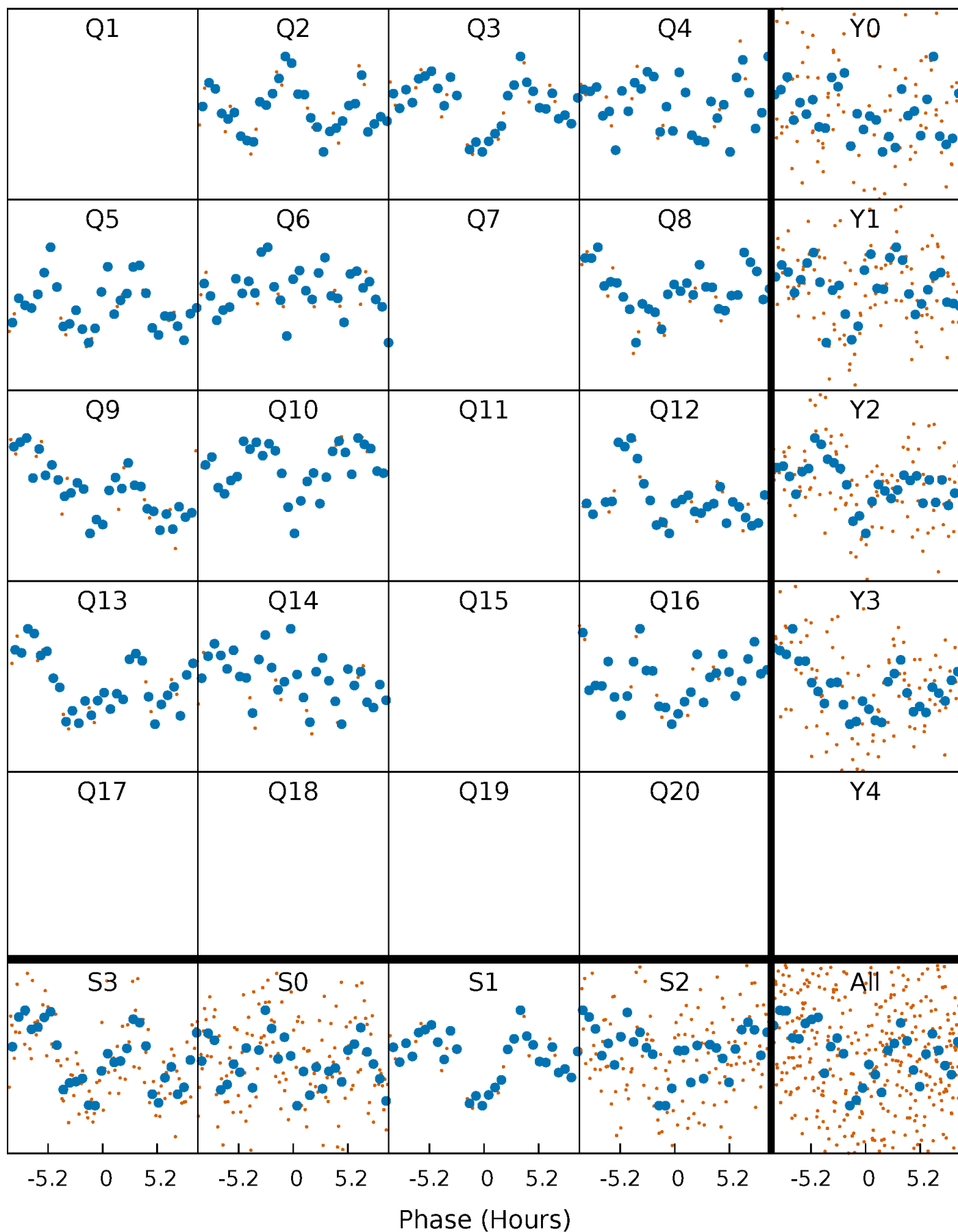


Non-Whitened Vs. Whitened Light Curve



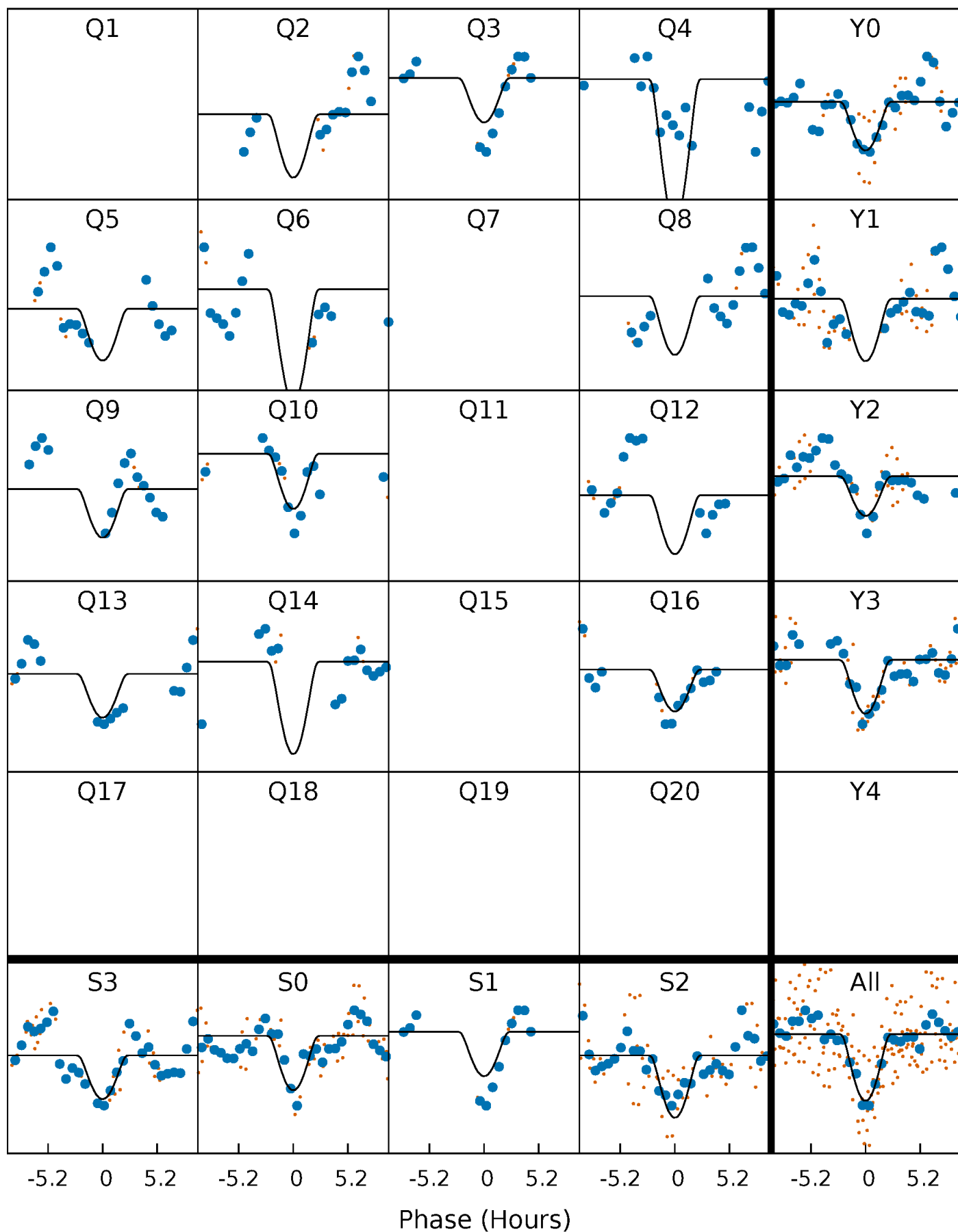
PDC Quarter-Phased Transit Curves

TCE 010811753-03 P= 92.521962 Days $T_0=218.912837$ (BKJD)



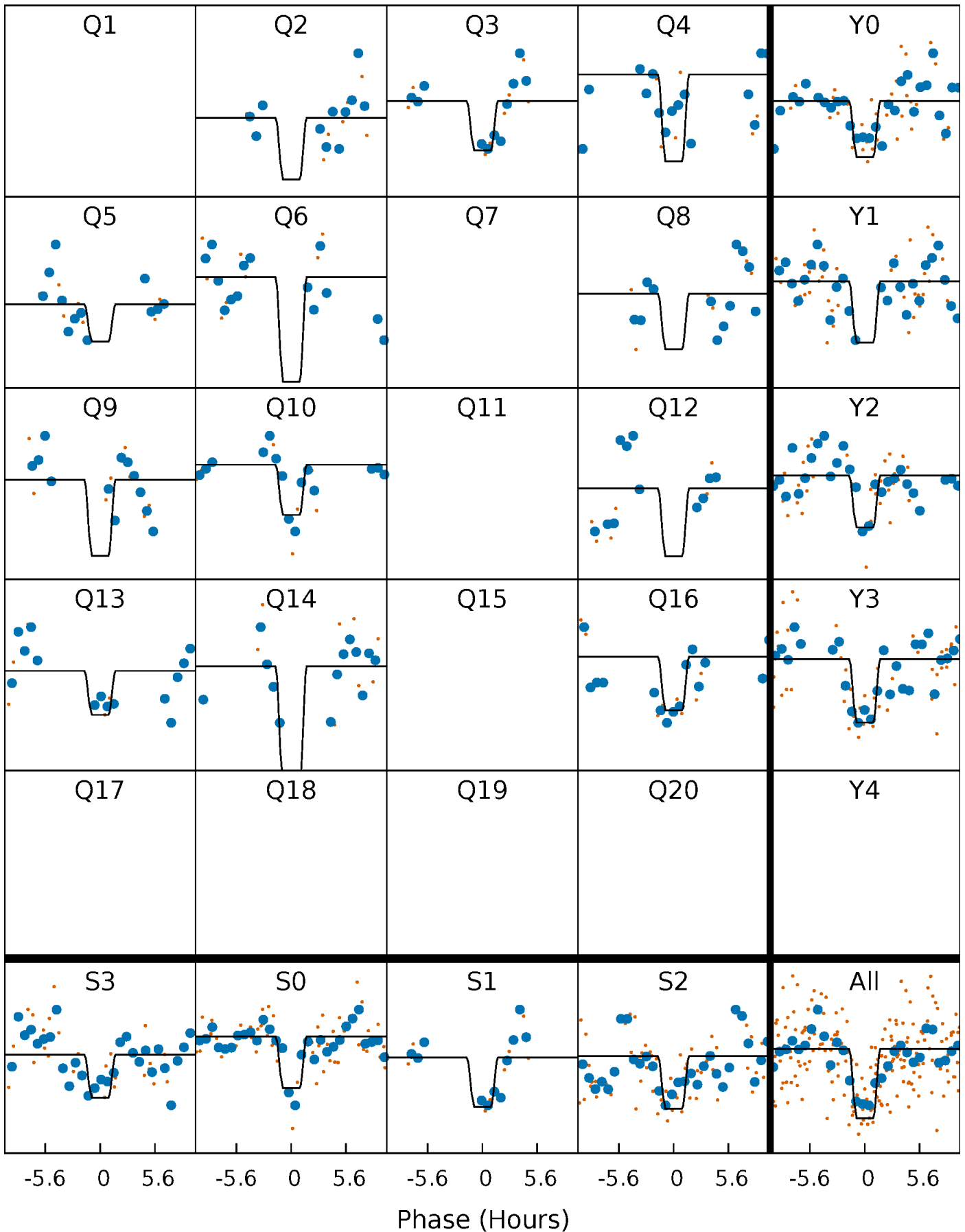
DV Quarter-Phased Transit Curves

TCE 010811753-03 P= 92.521962 Days $T_0=218.912837$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

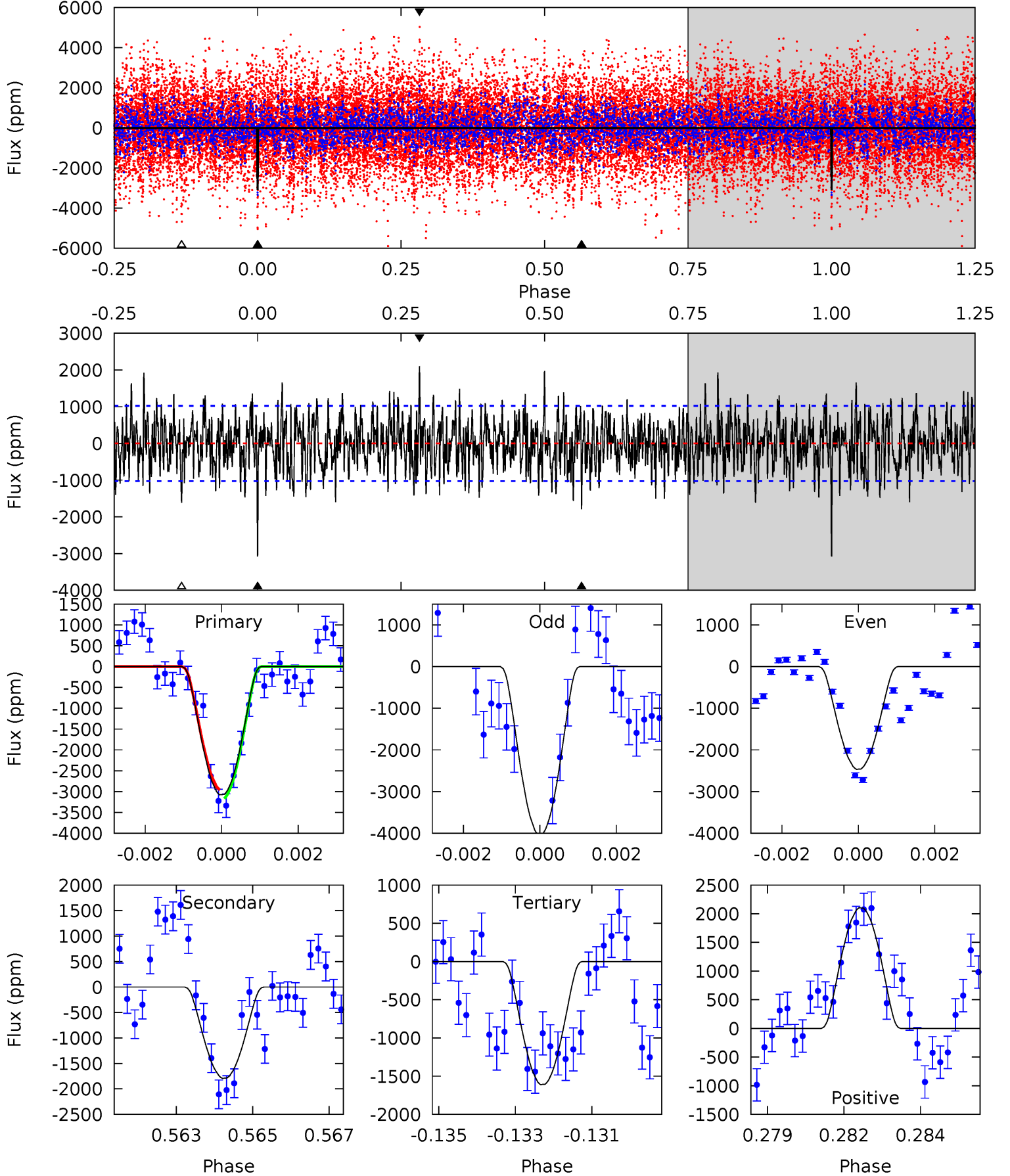
TCE 010811753-03 P= 92.524493 Days $T_0=218.893405$ (BKJD)



DV Model-Shift Uniqueness Test

010811753-03, $P = 92.521962$ Days, $E = 126.390875$ Days

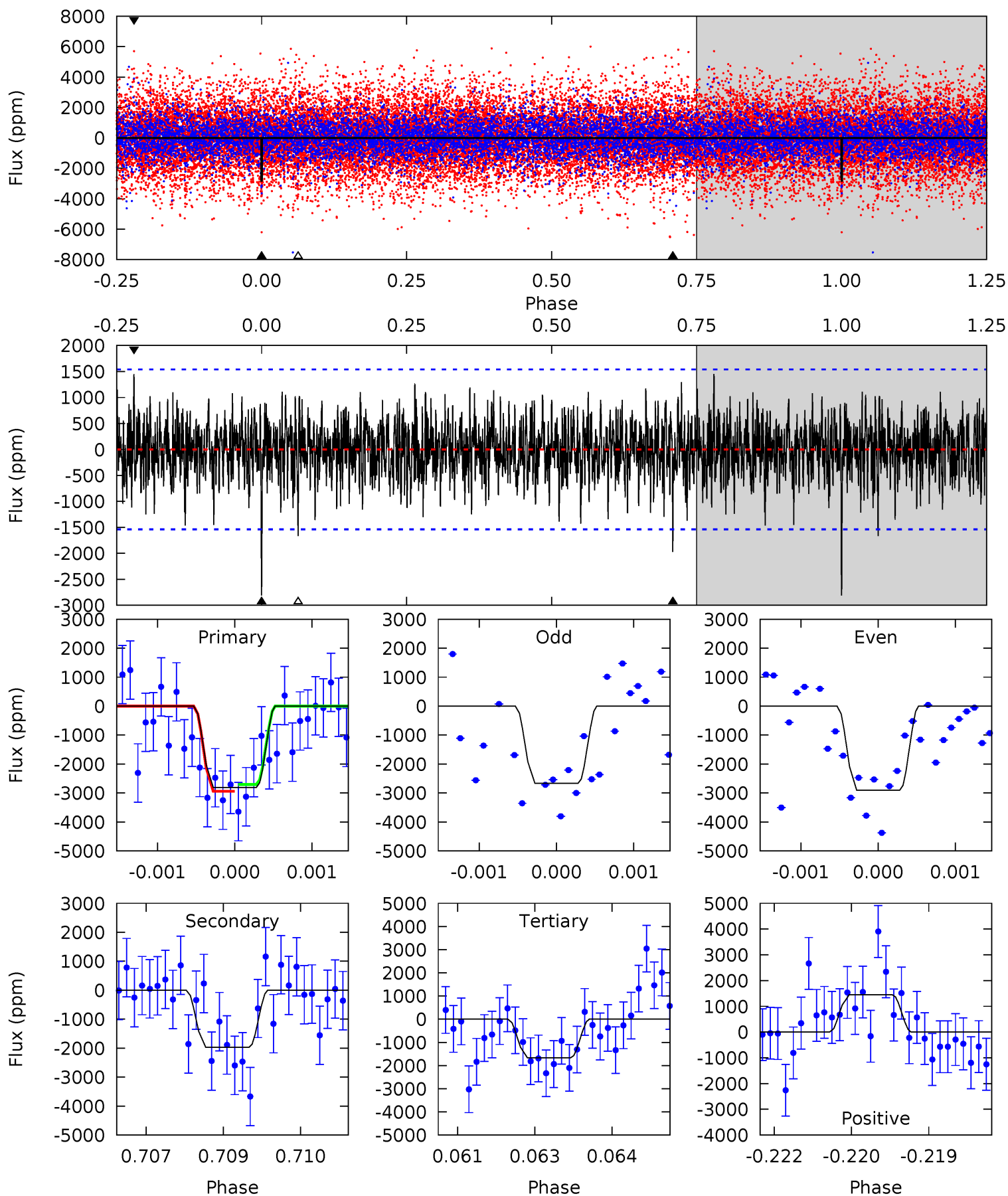
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.9	9.27	8.33	10.9	5.31	3.07	2.98	7.58	5.03	0.94	-1.61	3.87	0.86	0.41	0.54



Alt Model-Shift Uniqueness Test

010811753-03, P = 92.524493 Days, E = 126.368912 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.85	6.92	5.84	5.07	5.40	3.20	1.57	4.01	4.78	1.08	1.84	0.40	0.86	0.34	0.41



Stellar Parameters For KIC 010811753

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7912^{+79}_{-79}	$3.765^{+0.216}_{-0.054}$	$-0.200^{+0.150}_{-0.150}$	$2.956^{+0.200}_{-0.748}$	$1.855^{+0.067}_{-0.188}$	$0.101^{+0.131}_{-0.014}$
	+1%/-1%	+6%/-1%	+75%/-75%	+7%/-25%	+4%/-10%	+130%/-14%
Source	SPE68	SPE68	SPE68	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 010811753-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1792 ± 193	$61.46^{+59.96}_{-43.07}$	1187^{+33}_{-71}	3918^{+2562}_{-771}	62^{+595}_{-46}
Alt.	-1974 ± 285	$57.88^{+65.47}_{-41.92}$	1188^{+32}_{-75}	4037^{+3013}_{-847}	74^{+912}_{-57}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

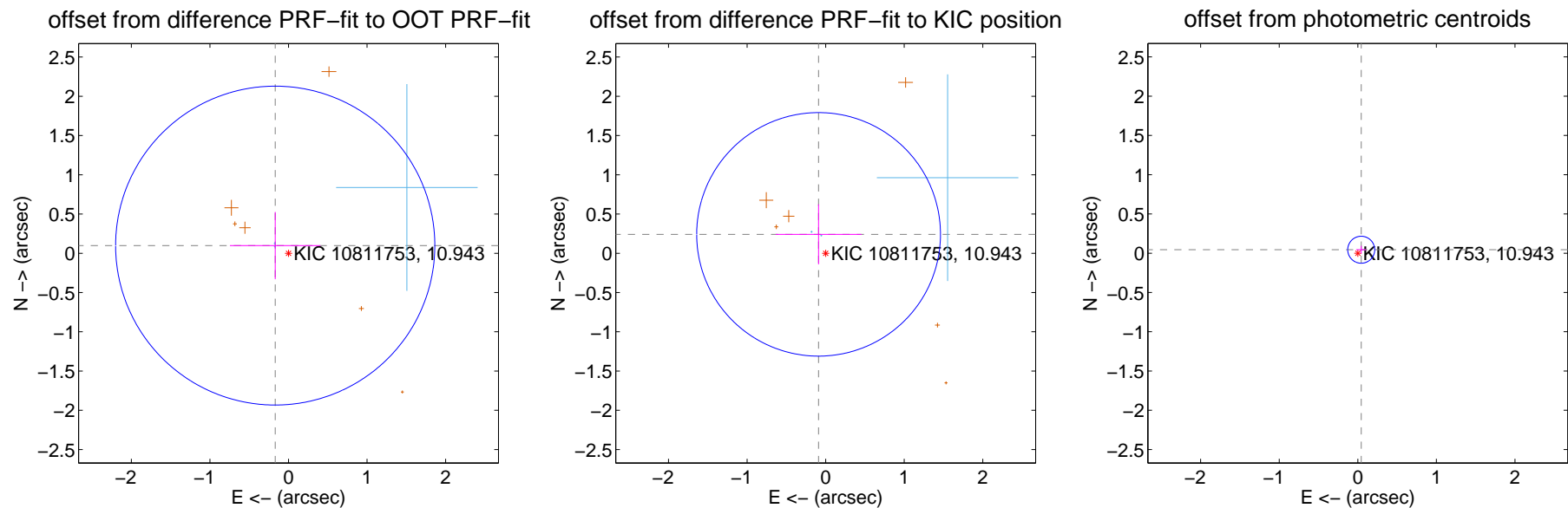
DV Centroid Data

Supplemental centroid analysis for 010811753-03. **Kepler magnitude: 10.94.** Transit SNR 8.04

There are 5 quarters with good PRF difference image offsets

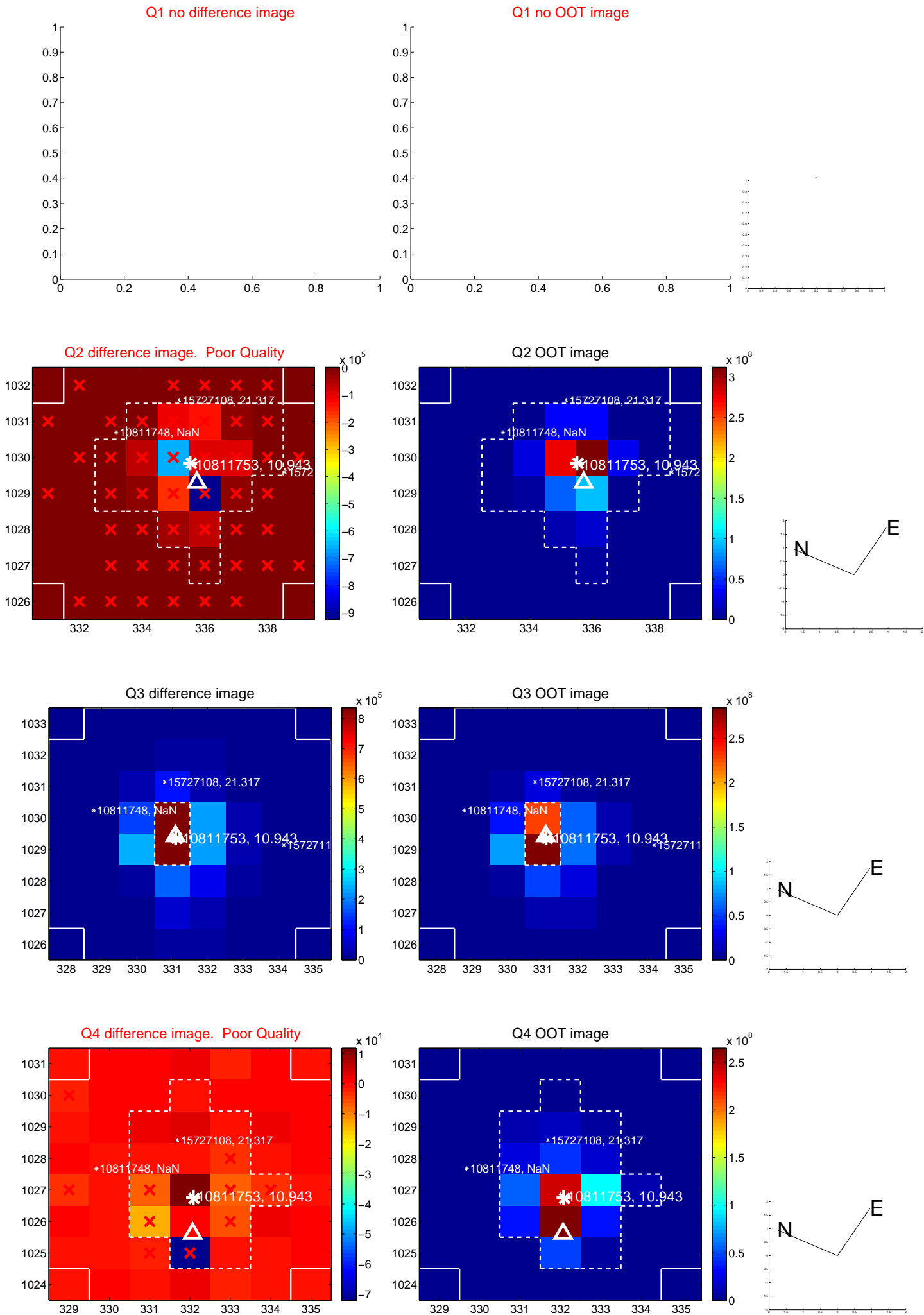
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.195 ± 0.677	0.29	0.169 ± 0.576	0.098 ± 0.429
PRF-fit source offset from KIC position	0.257 ± 0.517	0.50	0.090 ± 0.546	0.241 ± 0.382
photometric centroid source offset	0.06 ± 0.06	1.08	-0.04 ± 0.06	0.04 ± 0.05

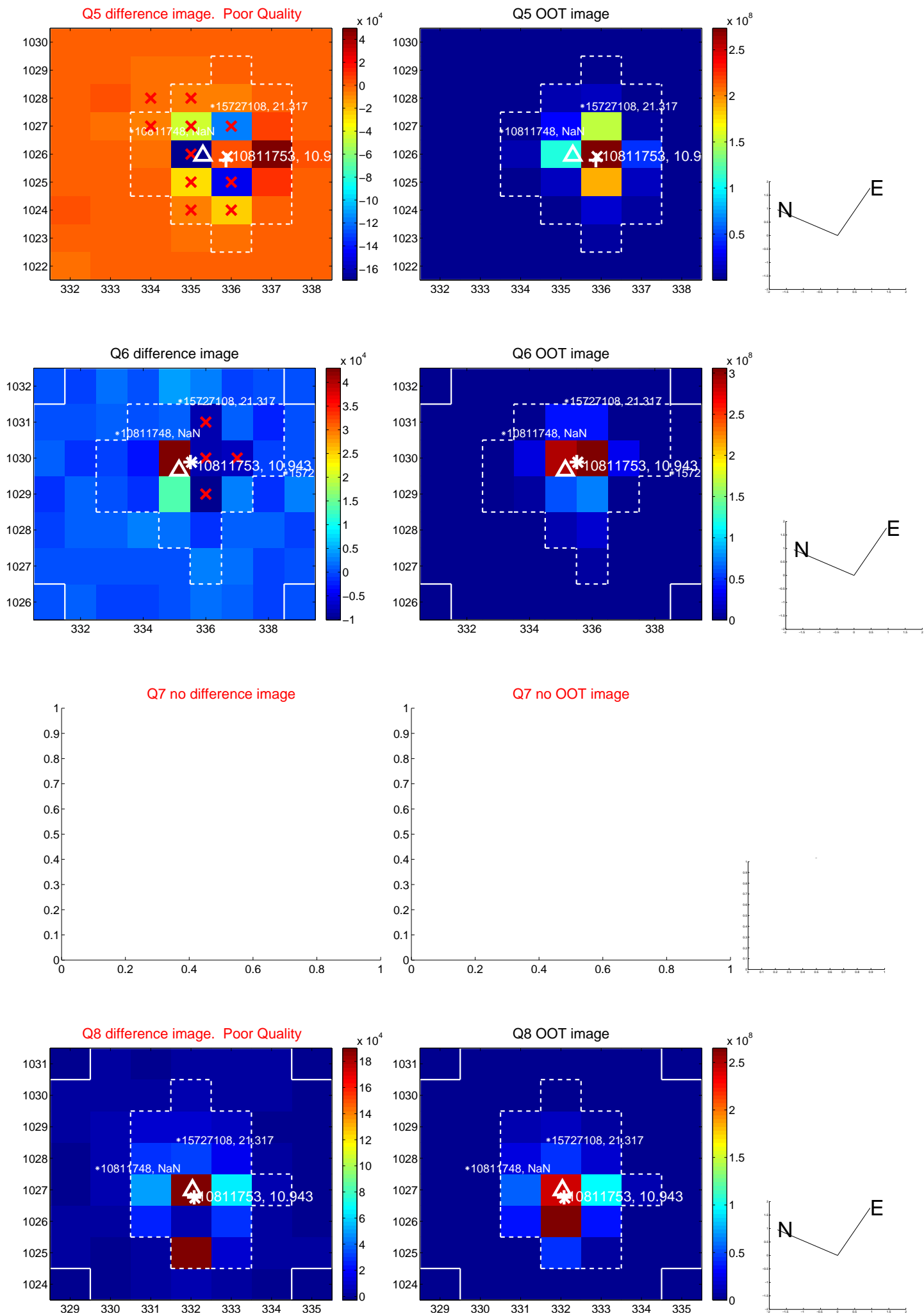


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

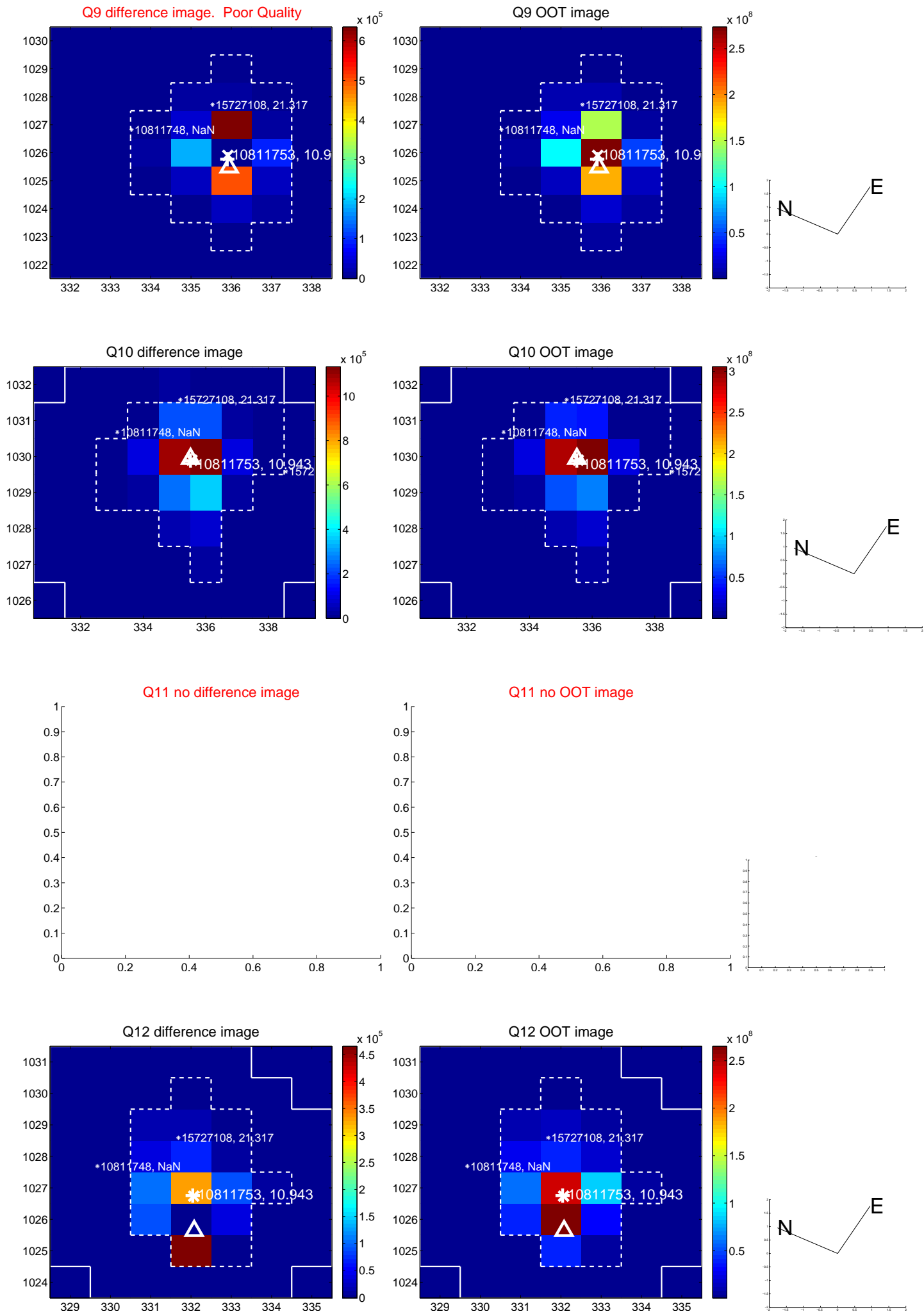
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



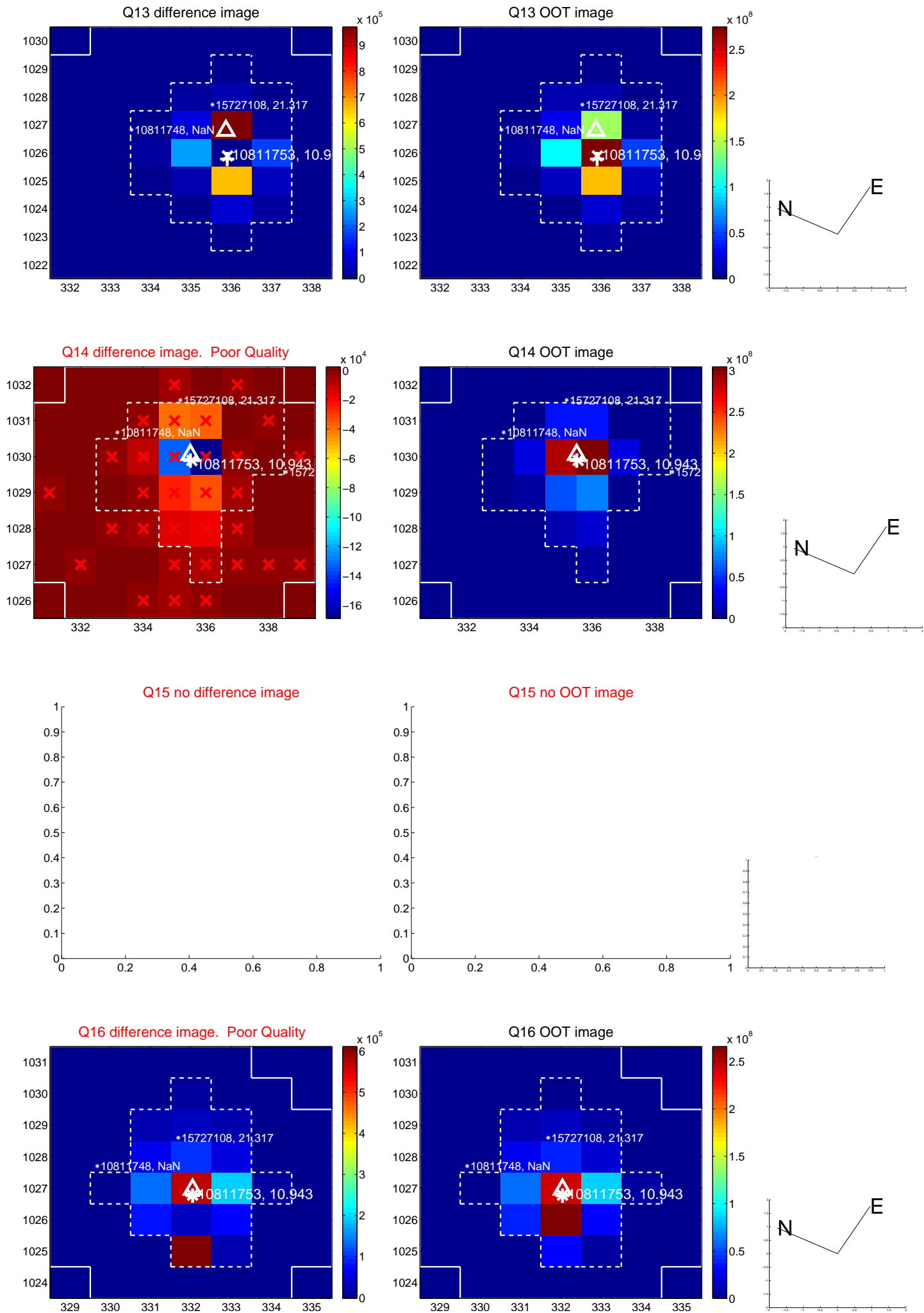
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



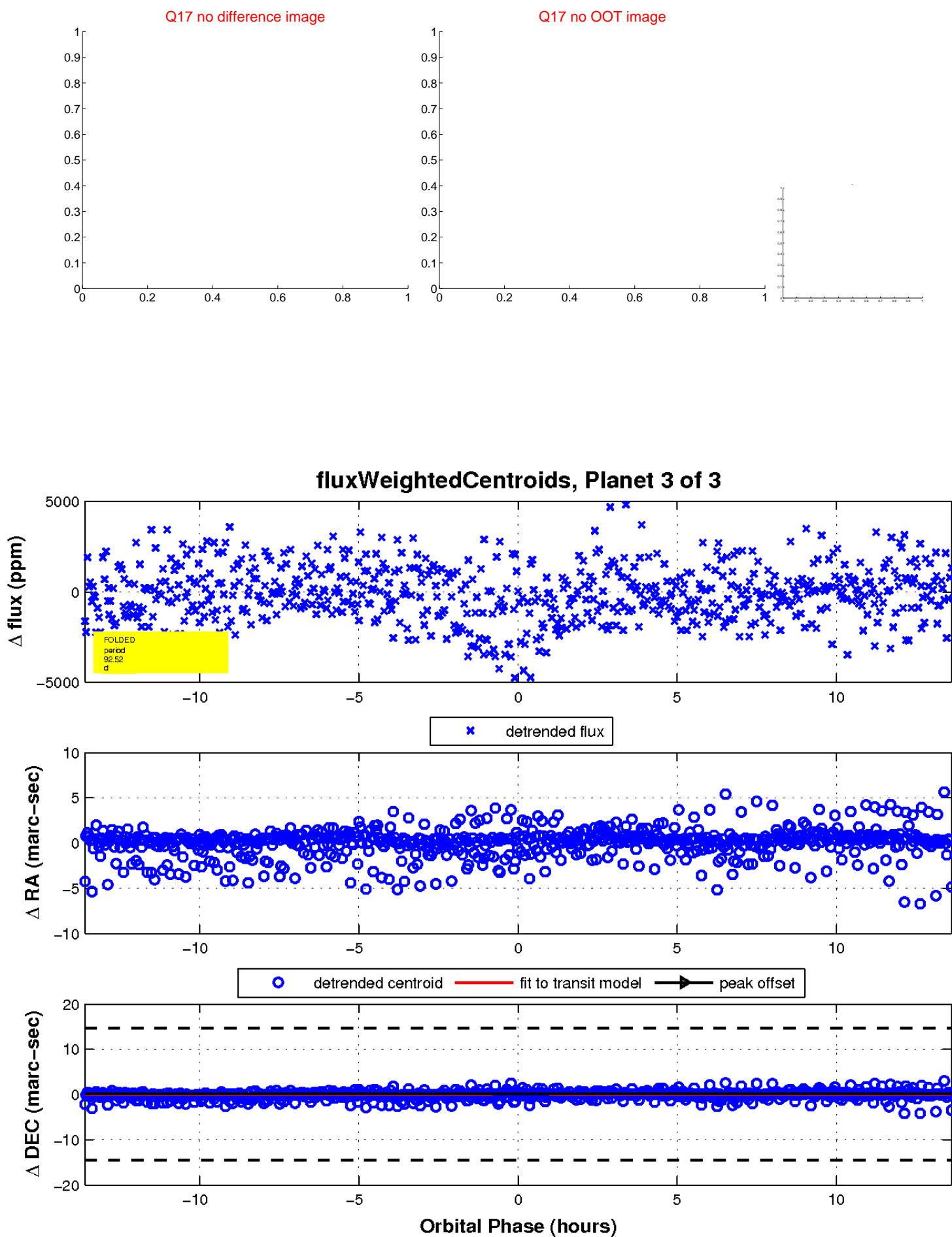
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

